

RECORD OF PROCEEDINGS
OF THE
BOARD OF TRUSTEES
OF THE
OHIO STATE UNIVERSITY

COLUMBUS

July 1, 1987 to June 30, 1988

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1987-1988

T H E O H I O S T A T E U N I V E R S I T Y

Edward H. Jennings, President

BOARD OF TRUSTEES

	Term Beginning	Term Expiring
Edmund C. Redman, Columbus	May 14, 1979	May 13, 1988
Leonard J. Immke, Columbus	May 14, 1980	May 13, 1989
John W. Berry, Dayton	May 14, 1981	May 13, 1990
Shirley D. Bowser, Williamsport	May 14, 1982	May 13, 1991
Hamilton J. Teaforde, Columbus	May 14, 1983	May 13, 1992
John J. Barone, Toledo	May 14, 1984	May 13, 1993
Deborah E. Casto, Columbus	May 14, 1985	May 13, 1994
John W. Kessler, Columbus	May 14, 1986	May 13, 1995
Milton A. Wolf, Cleveland	May 14, 1987	May 13, 1996
Leslie H. Wexner, Columbus	May 14, 1988	May 13, 1997

OFFICERS

Edmund C. Redman, Chairman
Leonard J. Immke, Vice Chairman
Madison H. Scott, Secretary
James L. Nichols, Treasurer

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THE OHIO STATE UNIVERSITY
OFFICIAL PROCEEDINGS OF THE
ONE THOUSAND TWO HUNDRED AND THIRTY-SECOND MEETING
OF THE BOARD OF TRUSTEES

Columbus, Ohio, July 9 and 10, 1987

The Board of Trustees met at its regular monthly meeting on Thursday, July 9, and Friday, July 10, 1987, at The Ohio State University Fawcett Center for Tomorrow, Columbus, Ohio, pursuant to adjournment.

* * *
Minutes of the last meeting were approved.
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July 9 and 10, 1987 meeting, Board of Trustees

The Vice Chairman, Mr. Immke, called the meeting of the Board of Trustees to order on July 9, 1987, at 6:35 p.m. He requested the Secretary to call the roll. The meeting recessed into Executive Session for the purpose of considering legal issues and personnel-related matters.

Present: Edmund C. Redman, Chairman, Leonard J. Immke, John W. Berry, Shirley D. Bowser, Hamilton J. Teaford, John J. Barone, John W. Kessler, and Milton A. Wolf.

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Mr. Redman reconvened the meeting on July 10, 1987, at 10:05 a.m.

Present: Edmund C. Redman, Chairman, Leonard J. Immke, John W. Berry, Shirley D. Bowser, John J. Barone, Deborah E. Casto, John W. Kessler, and Milton A. Wolf.

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At the outset of the Board meeting, Dr. William F. Palmer, Professor in the Department of Physics, gave a slide presentation on Ohio's bid for the Superconducting Super Collider.

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INTRODUCTION OF NEW BOARD MEMBER

Mr. Redman introduced the new member of the Board of Trustees:

Now that we have officially begun our meeting, I want to formally introduce our newest Trustee, Milton A. Wolf. Ambassador Wolf joins this Board from his home in Cleveland, where he heads Milton A. Wolf Investors. It is our shared hope that Ambassador Wolf will find this experience to be as rewarding as it has been for all of us, and that he will enjoy helping to guide the University in ever-greater pursuits.

I am pleased to announce that Ambassador Wolf will be serving as a member of the Board's Student Affairs Committee and as our only representative on the Inter-University Council. Please join with me in welcoming Milton Wolf to the Board of Trustees at The Ohio State University.

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NEW DEGREE PROGRAM - MASTER OF PUBLIC HEALTH DEGREE

Resolution No. 88-1

Synopsis: Establishment of a Master of Public Health degree is proposed.

WHEREAS the Department of Preventive Medicine, the College of Medicine, the Council on Research and Graduate Studies, and the Council on Academic Affairs have approved the establishment of a tagged Master of Public Health degree; and

WHEREAS such a degree program has been requested by health agencies and

July 9 and 10, 1987 meeting, Board of Trustees

NEW DEGREE PROGRAM - MASTER OF PUBLIC HEALTH DEGREE (contd)

health workers in Ohio since no comparable degree program currently exists in Ohio; and

WHEREAS sufficient student demand and resources exist to support the proposed Master of Public Health degree; and

WHEREAS the University Senate approved this action at their June 6, 1987 meeting:

NOW THEREFORE

BE IT RESOLVED, That the establishment of the Master of Public Health degree is hereby approved.

Upon motion of Mr. Berry, seconded by Mr. Barone, the Board of Trustees adopted the foregoing resolution by unanimous voice vote.

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NEW DEGREE PROGRAM - MASTER OF ARTS DEGREE PROGRAM IN ARABIC

Resolution No. 88-2

Synopsis: Establishment of a Master of Arts degree program in Arabic is proposed.

WHEREAS the Department of Judaic and Near Eastern Languages and Literatures, the Colleges of the Arts and Sciences, the Council on Research and Graduate Studies, and the Council on Academic Affairs have approved the establishment of a Master of Arts degree program in Arabic; and

WHEREAS currently no comparable degree program in Arabic exists in Ohio, the proposed M.A. program would fulfill a state-wide need; and

WHEREAS sufficient resources and student demand exist to support the proposed Master of Arts degree program in Arabic; and

WHEREAS the University Senate approved this action at their June 6, 1987 meeting:

NOW THEREFORE

BE IT RESOLVED, That the establishment of the Master of Arts degree program in Arabic is hereby approved.

Upon motion of Mr. Immke, seconded by Mr. Barone, the Board of Trustees adopted the foregoing resolution by unanimous voice vote.

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July 9 and 10, 1987 meeting, Board of Trustees

NEW DEGREE PROGRAM - MASTER OF ARTS DEGREE PROGRAM IN HEBREW

Resolution No. 88-3

Synopsis: Establishment of a Master of Arts degree program in Hebrew is proposed.

WHEREAS the Department of Judaic and Near Eastern Languages and Literatures, the Colleges of the Arts and Sciences, the Council on Research and Graduate Studies, and the Council on Academic Affairs have approved the establishment of a Master of Arts degree program in Hebrew; and

WHEREAS currently no comparable degree program in Hebrew exists in Ohio, the proposed M.A. program would fulfill a state-wide need; and

WHEREAS sufficient resources and student demand exist to support the proposed Master of Arts degree program in Hebrew; and

WHEREAS the University Senate approved this action at their June 6, 1987 meeting:

NOW THEREFORE

BE IT RESOLVED, That the establishment of the Master of Arts degree program in Hebrew is hereby approved.

Upon motion of Mr. Berry, seconded by Ms. Casto, the Board of Trustees adopted the foregoing resolution by unanimous voice vote.

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AMENDMENTS TO THE RULES OF THE UNIVERSITY FACULTY

Resolution No. 88-4

Synopsis: Amendments to rules 3335-5-46, 3335-47-03, and 3335-47-09, and the creation of a new rule 3335-5-494 are being proposed.

WHEREAS the University Senate pursuant to rule 3335-1-09 of the Administrative Code is authorized to recommend through the President to the Board of Trustees the adoption of amendments to the Rules of the University Faculty as approved by the University Senate; and

WHEREAS the proposed changes in the Rules of the University Faculty were approved by the University Senate on June 6, 1987, as follows:

NEW RULE

3335-5-494 Faculty advisory committee to the chancellor of the Ohio board of regents (FAC).

- (A) The university's representation to the FAC shall consist of two members of the university faculty who are principally engaged in the academic duties of teaching and research.

July 9 and 10, 1987 meeting, Board of Trustees

AMENDMENTS TO THE RULES OF THE UNIVERSITY FACULTY (contd)

- (B) One member shall be elected each alternate year, for a term of four years, commencing autumn quarter. In the first and fourth years of the term the member shall be designated alternate representative to the FAC. In the second and third years of the term, the member shall be the designated representative to the FAC.
- (C) The steering committee shall elect the FAC representatives, subject to confirmation by the senate. Presentation of the names of the representatives to the senate membership shall occur at least seven days prior to the confirmation vote.
- (D) The president shall report the faculty representatives, as confirmed by the senate, to the chancellor of the Ohio board of regents.
- (E) The faculty representative to the FAC shall report annually to the senate.

AMENDED RULES

3335-5-46 Senate committee operating procedures.

(A) Membership

- (1) Unchanged.
- (2) Unchanged.
- (3) Committee vacancy.
 - (a) Unchanged.
 - (b) Unless otherwise specified, when an unexpired term becomes vacant, the vacancy shall be filled by the steering committee. These vacancies will be filled in a manner consonant with the original method of committee selection. A member selected to fill such a vacancy shall serve for the duration of the unexpired term.

3335-47-03 Probationary service, duration of appointments.

(A) and (B) unchanged.

- (C) The appointment of a person to a nontenured regular faculty position is probationary in nature. Probationary appointments are for a one-year period, and faculty members on such appointments shall be reviewed annually. During this period persons have an opportunity to prove themselves to their peers; their record of accomplishments will be the basis for renewal or tenure decisions. Faculty members will be informed at the time of initial appointment and in a timely fashion each year thereafter when renewal or tenure decisions about them will be made and will be given the opportunity to submit materials they think are relevant to the making of these decisions. They shall also be provided all pertinent documents which set forth the relevant promotion and tenure policies, standards, and procedures (including but not limited to those that are required to

July 9 and 10, 1987 meeting, Board of Trustees

AMENDMENTS TO THE RULES OF THE UNIVERSITY FACULTY (contd)

be provided by rule 3335-3-35 of the Administrative Code) in a timely fashion.

- (D) The university does not assume any continuing obligation to renew the appointment of a nontenured faculty member. Nonrenewal may be based upon such factors as an assessment of inadequate performance or insufficient development, or any one of a number of academic, financial, or policy reasons, but must be the result of formal annual review in accord with the review procedures established by the appropriate academic unit of the appointee in accord with paragraph (B)(3) of rule 3335-3-35 of the Administrative Code. The nonrenewal of an appointment in and of itself, however, should not carry with it the implication of either incompetence or misconduct on the part of the faculty member.

3335-47-09. Standards of notice.

(A) and (B) unchanged.

- (C) In the event of a decision resulting in nonrenewal, the faculty member shall be notified in writing of that decision. Upon written request by the faculty member, reasons that contributed to the nonrenewal shall be supplied in writing to the faculty member. If the faculty member failed to meet the criteria for promotion and tenure set forth in rule 3335-47-02 of the Administrative Code, the statement of reasons shall indicate how the faculty member failed to meet these criteria. If nonrenewal is not based upon a failure to meet the criteria in rule 3335-47-02 of the Administrative Code, the notice shall so state, and shall also state the reasons for nonrenewal as outlined in paragraph (D) of rule 3335-47-03 of the Administrative Code.

NOW THEREFORE

BE IT RESOLVED, That the foregoing amendments to the Rules of the University Faculty be adopted as recommended by the University Senate.

Upon motion of Mr. Immke, seconded by Mr. Berry, the Board of Trustees adopted the foregoing resolution by unanimous voice vote.

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**AMENDMENTS TO THE BYLAWS OF THE MEDICAL STAFF
OF THE OHIO STATE UNIVERSITY HOSPITALS**

Resolution No. 88-5

Synopsis: Amendments to the Bylaws of the Medical Staff of The Ohio State University Hospitals are proposed.

WHEREAS The Ohio State University Hospitals Board pursuant to Bylaw 3335-101-04 of the Hospitals Board Bylaws is authorized to recommend to the Board of Trustees the adoption of amendments to the Bylaws of the Medical Staff of The Ohio State University Hospitals; and

July 9 and 10, 1987 meeting, Board of Trustees

**AMENDMENTS TO THE BYLAWS OF THE MEDICAL STAFF
OF THE OHIO STATE UNIVERSITY HOSPITALS (contd)**

WHEREAS the proposed amendments to Bylaws 3335-43-08 and 3335-43-09 were approved at the University Hospitals Board meeting on March 26, 1987, as follows:

AMENDED BYLAWS

3335-43-08 Organization of medical staff of the Ohio state university hospitals into clinical departments and divisions.

(A) Each member of the attending, courtesy, limited, and honorary staff shall be assigned to a clinical department or division upon the recommendation of the chief of the clinical department concerned.

(B) Names of clinical departments and divisions

(1) Anesthesiology

(2) Family medicine

(3) Internal medicine. The following divisions are designated:

Allergy
Cardiology
Community internal medicine
Dermatology
Endocrinology and metabolism
Gastroenterology
General medicine
Hematology and oncology
Infectious diseases
Pulmonary
Renal
Rheumatology - immunology

(4) Neurology

(5) Obstetrics and gynecology. The following divisions are designated:

General obstetrics and gynecology
Maternal - fetal medicine
Gynecologic oncology
Endocrinology - infertility

(6) Ophthalmology

(7) Otorhinolaryngology

(8) Pathology

(9) Pediatrics. The following divisions are designated:

Ambulatory pediatrics
Adolescent medicine
Allergy

July 9 and 10, 1987 meeting, Board of Trustees

AMENDMENTS TO THE BYLAWS OF THE MEDICAL STAFF
OF THE OHIO STATE UNIVERSITY HOSPITALS (contd)

Biochemical disorders
Cardiology
Clinical genetics
Dermatology
Endocrinology/metabolism
Gastroenterology
General pediatrics
Handicapped child
Hematology/oncology
Infectious diseases
Neonatology
Nephrology
Neurology
Nutrition
Pediatric education/research and evaluation
Pharmacology/toxicology
Psychology
Pulmonary

(10) Physical medicine and rehabilitation

(11) Preventive medicine. The following divisions are designated:

Preventive medicine
Emergency medicine
Sports medicine

(12) Psychiatry. The following divisions are designated:

General psychiatry
Child psychiatry
Sleep disorders medicine

(13) Radiology. The following divisions are designated:

Diagnostic radiology
Nuclear medicine
Radiation oncology

(14) Surgery. The following divisions are designated:

General surgery
Neurologic surgery
Orthopedic surgery
Pediatric surgery
Plastic surgery
Surgical oncology
Thoracic and cardiovascular surgery
Transplant
Urologic surgery
Vascular

(15) Dentistry. The following divisions are designated:

General dentistry

July 9 and 10, 1987 meeting, Board of Trustees

AMENDMENTS TO THE BYLAWS OF THE MEDICAL STAFF
OF THE OHIO STATE UNIVERSITY HOSPITALS (contd)

Oral surgery

(Balance unchanged)

3335-43-09 Elected officers of the medical staff of the Ohio state university hospitals.

(A) through (D) unchanged.

(E) Election of officers.

- (1) All officers (other than at-large officers) will be elected by a majority of those voting by written ballot of the attending staff after the quarterly meeting of the medical staff in March.
- (2) The nominating committee will be composed of five members. The chief of staff and the chief of staff-elect will serve on the committee and the chief of staff-elect will be its chairperson. The three other members of the committee will be nominated from the floor and elected, by a plurality upon written ballot, following the quarterly meeting of the medical staff in September.
- (3) The committee's nominees will be submitted in writing to all voting members of the attending staff no later than March 1.
- (4) Nominations for officers will be accepted from the floor at the March meeting.
- (5) Candidates for the office of chief of staff-elect will be listed and each attending staff member may vote for one. Candidates for the at-large positions will be voted upon as a group. Each voting member of the attending staff may vote for three at-large candidates. The three candidates with the highest number of votes will be elected. A majority of the votes is not necessary.
- (6) An officer may be removed from the elected position by a majority vote upon written ballot of the attending staff following a regularly scheduled quarterly meeting.

(Balance unchanged)

NOW THEREFORE

BE IT RESOLVED, That the foregoing amendments to the Bylaws of the Medical Staff of The Ohio State University Hospitals be adopted as recommended by the University Hospitals Board.

Upon motion of Mr. Kessler, seconded by Mr. Immke, the Board of Trustees adopted the foregoing resolution by unanimous voice vote.

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July 9 and 10, 1987 meeting, Board of Trustees

DEGREES AND CERTIFICATES - SUMMER QUARTER COMMENCEMENT

Resolution No. 88-6

Synopsis: Approval is being requested for awarding degrees and certificates for Summer Quarter Commencement.

WHEREAS pursuant to paragraph (E) of rule 3335-1-06 of the Administrative Code, the Board has authority for the issuance of degrees and certificates; and

WHEREAS the faculties of the colleges and schools shall transmit, in accordance with rule 3335-9-29 of the Administrative Code, for approval by the Board of Trustees the names of persons who have completed degree and certificate requirements:

NOW THEREFORE

BE IT RESOLVED, That the degrees and certificates be conferred on September 3, 1987, to those persons who have completed the requirements for their respective degrees and certificates and are recommended by the colleges and schools, and that the names of those persons awarded degrees and certificates be included in the minutes of this meeting.

Upon motion of Mr. Barone, seconded by Ms. Casto, the Board of Trustees adopted the foregoing resolution by unanimous voice vote.

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PERSONNEL ACTIONS

Resolution No. 88-7

RESOLVED, That the personnel actions as recorded in the Personnel Budget Records of the University since the June 5, 1987 meeting of the Board, including the following Changes in Title, Appointments, Reappointment of Principal Administrative Official, Appointment of Chairpersons of Departments and Division, Reappointment of Chairpersons of Academic Faculties, Departments, and Divisions, and Director of School, Leaves of Absence Without Salary, Professional Improvement Leaves, Professional Improvement Leaves--Change of Dates, Promotions/Tenure, and Emeritus Titles as detailed in the University Budget be approved, and the Medical Staff Appointments/Reappointments approved March 26, and June 25, 1987, by the Hospitals Board be ratified.

Changes in Title

Name:	CHARLES P. BIRD
Title:	Associate Dean/Associate Professor
Office/Department:	Mansfield Campus/Psychology
Effective:	July 16, 1987*
Salary:	\$50,040.00
Present Position:	Acting Associate Dean, Mansfield Campus and Associate Professor, Department of Psychology

* 12-month appointment, unless otherwise specified.

July 9 and 10, 1987 meeting, Board of Trustees

PERSONNEL ACTIONS (contd)

Changes in Title (contd)

Name: EDNA M. MENKE
Title: Associate Dean/Associate Professor
College/Department: Nursing/Family & Community
Effective: July 1, 1987*
Salary: \$62,520.00
Present Position: Associate Professor, Department of Family & Community

Name: GEORGE P. CREPEAU
Title: Acting Associate Dean/Professor
College/Department: The Arts/Theatre
Effective: July 1, 1987*
Salary: \$68,400.00
Present Position: Professor, Department of Theatre

Appointments

Name: S. ALAN HOLOCH
Title: Director, Law Library/Professor
College: Law
Effective: June 15, 1987*
Salary: \$77,520.00
Present Position: Director, Law Library and Associate Professor, Villanova University, School of Law, Villanova, PA

Name: ROBERT J. LYNN
Title: Professor (The John Deaver Drinko - Baker & Hostetler Chair in Law)
College: Law
Effective: August 16, 1987 (2-semester appointment)
Salary: \$94,920.00
Present Position: Professor, College of Law

Name: MICHAEL D. ROSE
Title: Professor (The Lawrence D. Stanley Professorship in Law)
College: Law
Effective: August 16, 1987 (2-semester appointment)
Salary: \$83,880.00
Present Position: Professor, College of Law

Reappointment of Principal Administrative Official

JAMES S. BIDDLE, Dean/Director of the Lima Campus, effective July 1, 1987, through June 30, 1992, pursuant to rule 3335-3-17 of the Administrative Code.

* 12-month appointment, unless otherwise specified.

July 9 and 10, 1987 meeting, Board of Trustees

PERSONNEL ACTIONS (contd)

Appointment of Chairpersons of Departments and Division

July 1, 1987 through June 30, 1988

Educational Theory and Practice
Veterinary Preventive Medicine

Gilbert A. Jarvis*
Erwin M. Kohler*

July 1, 1987 through June 30, 1990

Division of Pharmacology

Dennis R. Feller

July 1, 1987 through June 30, 1991

Aeronautical and Astronautical Engineering
Art Education
Human Services Education
Welding Engineering

Thomas M. York
Michael J. Parsons
Judy L. Genshaft
David W. Dickinson

July 6, 1987 through June 30, 1991

Photography and Cinema

Charles Harpole

August 1, 1987 through June 30, 1991

Agricultural Engineering

Robert J. Gustafson

October 1, 1987 through September 30, 1989

Linguistics

Brian Joseph

Reappointment of Chairpersons of Academic Faculties, Departments, and Divisions, and Director of School

July 1, 1987 through September 30, 1987

Division of Agricultural Mechanics
Technology

Ronald J. Borton*

July 1, 1987 through December 31, 1987

Family Relations and Human Development

Patrick C. McKenry*

July 1, 1987 through June 30, 1988

Division of Mining Engineering
Veterinary Anatomy

George R. St. Pierre*
George P. Wilson III*

July 1, 1987 through June 30, 1990

Division of Pharmacy Practice

Richard H. Reuning

July 1, 1987 through June 30, 1991

Architecture

Robert S. Livesey

* Acting Chairperson

July 9 and 10, 1987 meeting, Board of Trustees

PERSONNEL ACTIONS (contd)

Reappointment of Chairpersons of Academic Faculties, Departments, and Divisions, and Director of School (contd)

July 1, 1987 through June 30, 1991 (contd)

Astronomy	Eugene R. Capriotti
City and Regional Planning	Kenneth T. Pearlman
Civil Engineering	Robert L. Sierakowski
Educational Policy and Leadership	Charles M. Galloway
School of Journalism	Walter K. Bunge
Academic Faculty of Management and Human Resources	Herman R. Bobbitt
Academic Faculty of Management Sciences	LeRoy J. Krajewski
Mechanical Engineering	Lawrence A. Kennedy

July 1, 1987 through September 30, 1991

English	Morris Beja
Geography	John N. Rayner

Leaves of Absence Without Salary

MARILYN N. SUYDAM, Professor, Department of Educational Theory and Practice, effective Autumn Quarter 1987, Winter Quarter and Spring Quarter 1988, to accept a Distinguished Visiting Professorship at Miami University, Oxford, Ohio.

BRUCE R. GAUMNITZ, Assistant Professor, Academic Faculty of Accounting and Management Information Systems, effective Autumn Quarter 1987, Winter Quarter and Spring Quarter 1988, to undertake a concentrated program of academic research.

MAXEY L. WELLMAN, Assistant Professor, Department of Veterinary Pathobiology, effective July 6, 1987, through October 4, 1987, for medical and personal reasons.

PEGGY DEE WILSON, Assistant Professor, School of Allied Medical Professions, effective July 1, 1987, through August 31, 1987, to pursue graduate studies.

Professional Improvement Leaves

RUSSELL M. PITZER, Professor, Department of Chemistry, effective Autumn Quarter 1987, Winter Quarter and Spring Quarter 1988.

C. WILLIAM MCCURDY, Associate Professor, Department of Chemistry, effective Autumn Quarter 1987, Winter Quarter and Spring Quarter 1988.

Professional Improvement Leaves--Change of Dates

BORIS G. PITTEL, Professor, Department of Mathematics, change leave from Autumn Quarter 1986, Winter Quarter and Spring Quarter 1987, to Winter Quarter, Spring Quarter and Autumn Quarter 1988.

July 9 and 10, 1987 meeting, Board of Trustees

PERSONNEL ACTIONS (contd)

Professional Improvement Leaves--Change of Dates (contd)

ALEXANDER DYNIN, Associate Professor, Department of Mathematics, change leave from Autumn Quarter 1987 and Winter Quarter 1988, to Autumn Quarter 1988 and Winter Quarter 1989.

Emeritus Titles

FLOYD M. BEMAN, Department of Internal Medicine - Gastroenterology, with the title Professor Emeritus, effective July 1, 1987.

KEITH BROOKS, Department of Communication, with the title Professor Emeritus, effective July 1, 1987.

FRED K. BUSCHER, Department of Horticulture, with the title Professor Emeritus, effective July 1, 1987.

KARL F. GRAFF, Department of Welding Engineering, with the title Professor Emeritus, effective July 1, 1987.

DAVID D. JENKINS, Cooperative Extension Service, with the title Professor Emeritus, effective July 1, 1987.

AHARON A. KSIENSKI, Department of Electrical Engineering, with the title Professor Emeritus, effective July 1, 1987.

HERMANN MEYER, Department of Veterinary Anatomy, with the title Professor Emeritus, effective July 1, 1987. This appointment was approved pursuant to the recommendation of the Office of Academic Affairs as an exception to the Rules of the University Faculty, 3335-5-19(D).

ROBERT C. MILJUS, Academic Faculty of Management and Human Resources, with the title Professor Emeritus, effective July 1, 1987.

MELVILLE L. PALMER, Department of Agricultural Engineering, with the title Professor Emeritus, effective July 1, 1987.

HAROLD K. THOBURN, Cooperative Extension Service, with the title Professor Emeritus, effective July 1, 1987.

CHARLES B. WHEELER, Department of English, with the title Professor Emeritus, effective July 1, 1987.

JOHN N. MEAGHER, Department of Surgery - Neurosurgery, with the title Clinical Professor Emeritus, effective July 1, 1987.

MARTIN P. SAYERS, Department of Surgery - Neurosurgery, with the title Clinical Professor Emeritus, effective July 1, 1987.

FRANK E. BATTOCLETI, Department of Electrical Engineering, with the title Associate Professor Emeritus, effective July 1, 1987.

ILA REE COE, Cooperative Extension Service, with the title Associate Professor Emeritus, effective July 1, 1987.

July 9 and 10, 1987 meeting, Board of Trustees

PERSONNEL ACTIONS (contd)

Emeritus Titles (contd)

WILLIAM R. SCHNUG, Department of Agricultural Engineering, with the title Associate Professor Emeritus, effective July 1, 1987.

JOHN P. STANLEY, School of Public Administration, with the title Associate Professor Emeritus, effective July 1, 1987.

CARLOS F. TUCKER, Cooperative Extension Service, with the title Associate Professor Emeritus, effective July 1, 1987.

JACK P. TULL, Department of Mathematics, with the title Associate Professor Emeritus, effective July 1, 1987.

BETH L. WISMAR, Department of Anatomy, with the title Associate Professor Emeritus, effective July 1, 1987.

ARTHUR C. ERDMAN, Department of Electrical Engineering, with the title Assistant Professor Emeritus, effective July 1, 1987.

WILLIAM L. GREEN, Department of Welding Engineering, with the title Assistant Professor Emeritus, effective July 1, 1987.

PHILIP L. GROVER, Cooperative Extension Service, with the title Assistant Professor Emeritus, effective July 1, 1987.

RICHARD C. MCNUTT, Cooperative Extension Service, with the title Assistant Professor Emeritus, effective July 1, 1987.

FREDERICK W. DIERKER, Department of Family Medicine, with the title Clinical Assistant Professor Emeritus, effective July 1, 1987.

Upon motion of Mr. Kessler, seconded by Mr. Immke, the Board of Trustees adopted the foregoing resolution by unanimous roll call vote.

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RESOLUTIONS IN MEMORIAM

Resolution No. 88-8

Synopsis: Resolutions honoring the service of six of the University's faculty members who have recently died are being proposed.

RESOLVED, That the Board adopt the following Resolutions in Memoriam and that the President be requested to convey a copy to the families of the deceased.

Robert C. Grubbs

The Board of Trustees of The Ohio State University expresses its sorrow upon the death on April 27, 1987, of Robert C. Grubbs, Professor Emeritus and former Acting Chairman in the Department of Physiology.

July 9 and 10, 1987 meeting, Board of Trustees

RESOLUTIONS IN MEMORIAM (contd)

Robert C. Grubbs (contd)

Dr. Grubbs was born May 3, 1907, in Columbus, Ohio. He attended Columbus Public Schools and The Ohio State University, receiving a B.A. in Anatomy in 1930; M.S. in Physiology in 1933; and graduating with an M.D. degree from the College of Medicine in 1935. Following this he remained at Ohio State for a year of postdoctoral studies as a Rockefeller Research Associate in the Department of Physiology.

Dr. Grubbs served on the faculty of the George Washington University College of Medicine from 1937 until 1946 at which time he returned to The Ohio State University as an Assistant Professor in the Department of Physiology. He also served as an Assistant Clinical Professor in the Department of Medicine, was promoted to Professor in Physiology in 1957 and served as Acting Chairman of the latter Department from 1962 to 1964. Upon his retirement in 1976, he was named Professor Emeritus. Following his retirement from Ohio State in 1976 he joined the medical staff of the Veteran's Administration Clinic.

Dr. Grubbs held membership in a number of professional societies including the Society of Sigma Xi; American Physiological Society; American Medical Association; Columbus Academy of Medicine; Ohio State Medical Association; Alpha Omega Alpha Medical Society; and Institute of Nutrition and Food Technology. His research interests included metabolic effects of folic acid; effects of ionizing radiation, metabolism of nucleated erythrocytes and metabolic effects of oral hypoglycemic agents.

Activities involving the Republican Party, Masonic Lodge, and Shriners were important in the life of Dr. Grubbs. He was a member of the Republican Glee Club; a past worthy patron of the R.T. King Chapter No. 340 O.E.S.; a past president of the 17th District O.E.S.; a member of University Lodge No. 631 F. and A.M.; York Chapter No. 200; York Council No. 115; 33rd Degree Scottish Rite; Alladin Shrine; and Royal Order of Jesters Court No. 8.

On behalf of the University, the Board of Trustees expresses to the family its deep sympathy and sense of understanding in their loss. It was directed that this resolution be inscribed upon the minutes of the Board of Trustees and that a copy be tendered to the family as an expression of the Board's heartfelt sympathy.

Ethel M. Leazenbee

The Board of Trustees of The Ohio State University expresses its sorrow upon the death on June 10, 1987, of Ethel M. Leazenbee, Associate Professor Emeritus in the College of Nursing.

Ethel Leazenbee was born January 12, 1896, in Franklin County, Ohio. She received her Bachelor of Science in Education degree in 1935 at The Ohio State University and Masters of Arts in Education in 1938, and in 1945 she received a certificate in Public Health Nursing.

Her eleven year association from January 1952 to her retirement and appointment as an Associate Professor Emeritus in Nursing on October 1, 1963, was preceded by an appointment to the School of Nursing under a

July 9 and 10, 1987 meeting, Board of Trustees

RESOLUTIONS IN MEMORIAM (contd)

Ethel M. Leazenbee (contd)

special contract from 1935-47. Ethel was also brought back to the School for a three-month period to help out in a difficult time from April through June of 1965.

From 1936 through 1951 she was an instructor and lecturer in Columbus and at the University of Chicago and the University of Pittsburgh in the area of Public Health Nursing. In January of 1952 she returned to The Ohio State University as an Assistant Professor and was promoted to an Associate Professor in 1955. She was appointed by the Governor to serve on the State Nurses Board, 1954-59, and served as President for two years. She had served on national committees on Public Health Nursing Education and served on the Collegiate Board of Review of the National League for Nursing Accrediting Service. The Ohio Department of Health Nursing Service counted on her heavily for consultation.

A publication to her credit is Public Health Nursing in a General Nursing Program, Nursing Outlook, Vol. V, No. 3, (March 1957).

On behalf of the University community, the Board of Trustees expresses to the family of Ethel M. Leazenbee its deepest sympathy. It was directed that this resolution be inscribed upon the minutes of the Board of Trustees and that a copy be tendered to the family as an expression of the Board's heartfelt sympathy.

Mary B. Patton

The Board of Trustees of The Ohio State University expresses its sorrow upon the death on May 15, 1987, of Mary Brown Patton, Professor Emeritus in the Department of Human Nutrition and Food Management.

Dr. Patton was born February 11, 1900, in Hebron, Ohio. She earned her B.S. (1925), M.S. (1929), and Ph.D. (1949) at The Ohio State University. Dr. Patton worked as an elementary and high school teacher prior to beginning her work in the College of Home Economics at The Ohio State University. Dr. Patton served as an assistant for the Ohio Agricultural Experiment Station from 1926-1929. She then was an instructor from 1929-1946. Dr. Patton became an Assistant Professor in 1946, Associate Professor in 1949, and Professor in 1953. She retired in 1960, and was named Professor Emeritus.

Dr. Patton was the author of many research reports, papers, and bulletins for a wide range of nutrition studies. Many of these studies centered on the food habits of pre-school and school age children. Other work by Dr. Patton included studies of the eating practices of young children and their families in relation to such factors as economic status, employment of the mother outside the home, number of siblings, and food marketing practices. Dr. Patton also did important work on mineral metabolism of college-age women. In 1959, Dr. Patton was recipient of the American Home Economics Association Borden Award.

On behalf of the University, the Board of Trustees expresses its sympathy and understanding to the family of Professor Patton. It was directed that this resolution be inscribed upon the minutes of the Board of

July 9 and 10, 1987 meeting, Board of Trustees

RESOLUTIONS IN MEMORIAM (contd)

Mary B. Patton (contd)

Trustees and that a copy be tendered to the family as an expression of the Board's heartfelt sympathy.

Rodney F. Plimpton, Jr.

The Board of Trustees of The Ohio State University expresses its sorrow upon the death on May 16, 1987, of Rodney F. Plimpton, Jr., Professor in the Department of Animal Science.

Rodney Plimpton was born May 16, 1937, in Poughkeepsie, New York. He received the B.S. degree in Animal Husbandry from Rutgers University and entered graduate school at The Ohio State University in 1959. He studied in the Department of Animal Science specializing in meat science and earned the M.S. and Ph.D. degrees in 1961 and 1965, respectively. During this graduate study he served as an effective teaching and research assistant. This experience influenced him to accept an appointment as an instructor of meat science courses. In 1972 he was promoted to the rank of Professor.

Dr. Plimpton was an unusually exuberant, dynamic teacher of 11 different courses during his career and twice was the honored recipient of the University Alumni Distinguished Teaching Award. The American Meat Science Association Distinguished Teaching Award was bestowed upon him in 1978. The tremendous number of undergraduate students who sought him out as an academic advisor and counselor provides clear evidence of his extremely effective relationship with students. He was a productive researcher, major advisor to 26 graduate students, and highly respected on the national level as a speaker and prolific writer on meat science and teaching.

Rodney Plimpton served on the University Senate and vigorously contributed fresh ideas and wisdom to numerous committees and projects during his 28 loyal years of service to The Ohio State University. As additional contributions to The Ohio State University, he and his wife, "Peg," proudly observed two daughters complete Ph.D.s', a third complete an undergraduate accounting program, and a high school senior son set his sights on Ohio State.

On behalf of the University, the Board of Trustees expresses to the family its deep sympathy and sense of understanding in their loss. It was directed that this resolution be inscribed upon the minutes of the Board of Trustees and that a copy be tendered to the family as an expression of the Board's heartfelt sympathy.

David M. Scott

The Board of Trustees of The Ohio State University expresses its sorrow upon the death on May 21, 1987, of David M. Scott, Professor of Physics at the Mansfield Campus of The Ohio State University.

Dr. Scott was born on February 20, 1933, in Evanston, Illinois. He received his B.S. in Mechanical Engineering from the Massachusetts

July 9 and 10, 1987 meeting, Board of Trustees

RESOLUTIONS IN MEMORIAM (contd)

David M. Scott (contd)

Institute of Technology in 1955 and spent eight years working for General Motors and Monsanto. He was awarded the Ph.D. in physics from The Ohio State University in 1969. He had taught at OSU-Mansfield since 1970, and became the first full-time teaching faculty member at a regional campus to earn the rank of full professor.

Dr. Scott was selected by his Mansfield faculty colleagues as the recipient of a special Faculty Leadership Award which acknowledged his extensive contributions to faculty governance, scholarship, and teaching. He served as the University Senator from Mansfield from 1983-86 and chaired the Senate Rules Committee in 1984-85. He was a member of the Ohio Board of Regents Chancellor's Academic Advisory Committee for Two-Year Campuses in 1983-84 and served on the Coordinating Committee for Review of the Agricultural Technical Institute in 1981-83. Dr. Scott chaired the committee that wrote the Mansfield Campus Faculty Assembly Constitution and served as faculty assembly president. He chaired all of the major Mansfield Campus committees at various times.

Dr. Scott was co-author of 17 scientific papers in high energy physics. His textbook, The Physics of Vibrations and Waves was published in 1986, for which he received the 1987 Mansfield Campus Scholarship Award.

On behalf of the University, the Board of Trustees expresses its sympathy and understanding to the family of Professor Scott. It was directed that this resolution be inscribed upon the minutes of the Board of Trustees and that a copy be tendered to the family as an expression of the Board's heartfelt sympathy.

Henry Peter "Bud" Sengelmann

The Board of Trustees of The Ohio State University expresses its sorrow upon the death on May 30, 1987, of Henry Peter "Bud" Sengelmann M.D., Clinical Assistant Professor, Department of Pediatrics in the College of Medicine.

Dr. Sengelmann was born October 17, 1929. A native of New Jersey, he graduated from Colgate University in 1951 with his major areas of study being in Zoology and Pre-Med. His interests led him to the Albany Medical College where he was a research assistant in the Department of Physiology, and from there, he went on to pursue a medical degree at The Ohio State University College of Medicine, graduating in 1956.

Deciding on a career as a pediatrician, Dr. Sengelmann served his pediatric internship and residency at Columbus Children's Hospital and The Ohio State University from 1956-59. Upon completion of his training, he entered private practice here in Columbus, and subsequently was certified by the American Board of Pediatrics in 1962.

During his early years in Columbus as a member of the pediatric faculty, he took on the responsibility of the Newborn Nursery at Children's Hospital. During his 28 years in private practice, he taught medical students, graduate students, pediatric nurse practitioners and residents in his office, and was a member of the attending medical staffs of

July 9 and 10, 1987 meeting, Board of Trustees

RESOLUTIONS IN MEMORIAM (contd)

Henry Peter "Bud" Sengelmann (contd)

Children's Hospital, The Ohio State University Hospitals, Riverside Methodist Hospital, and Grant Hospital.

Active in numerous professional organizations, Dr. Sengelmann was a member of the American Academy of Pediatrics, The Ohio State Medical Association, the American Medical Association, the Academy of Medicine of Columbus and Franklin County, the Central Ohio Pediatric Society, and the Children's Practicing Pediatricians.

On behalf of the University community, the Board of Trustees expresses to the family of Henry Peter "Bud" Sengelmann its deepest sympathy. It was directed that this resolution be inscribed upon the minutes of the Board of Trustees, and that a copy be tendered to the family as an expression of the Board's heartfelt sympathy.

Upon motion of Mrs. Bowser, seconded by Mr. Berry, the Board of Trustees adopted the foregoing resolution by unanimous voice vote.

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REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS

Resolution No. 88-9

Synopsis: The reports on contracts, grants, and gifts and the summary for May 1987 are presented for Board acceptance.

WHEREAS monies are solicited and received on behalf of the University from governmental, industrial, other agencies, alumni, and various individuals in support of research, instructional activities, and service; and

WHEREAS such gifts and grants are received through The Ohio State University Research Foundation, the Engineering Experiment Station of The Ohio State University, and The Ohio State University Development Fund:

NOW THEREFORE

BE IT RESOLVED, That the research agreement between The Ohio State University and The Ohio State University Research Foundation for the contracts and grants reported herein, and the acceptance of the reports from the Engineering Experiment Station and The Ohio State University Development Fund during the month of May 1987 be approved.

Upon motion of Mr. Imcke, seconded by Ms. Casto, the Board of Trustees adopted the foregoing resolution by unanimous voice vote.

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July 9 and 10, 1987 meeting, Board of Trustees

REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)

SUMMARY FOR MAY 1987

Source	No. of Projects	Support Level
The Ohio State University Research Foundation	112	\$21,050,954.76
Engineering Experiment Station	37	\$ 223,654.00
Total	149	\$21,274,608.76
The Ohio State University Development Fund		
Establishment of Named Funds		
Ameritech Endowment Fund (Support fellowships in the Graduate School)		\$ 15,000.00
The Law Centennial Building Fund (Fund the Law Building Addition and Renovation Project)		\$ 15,000.00
Phi Kappa Phi OSU Chapter Scholarship for Graduate Students (Provide scholarship(s) to graduate students)		\$ 15,000.00
The David Louis Mitchell Civic Action Award (Provide grants to individual student(s) and/or student organization(s) to support creative action-oriented projects enabling students to ameliorate economic or social problems in the larger community or on campus)		\$ 5,000.00

July 9 and 10, 1987 meeting, Board of Trustees

REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)

THE OHIO STATE UNIVERSITY RESEARCH FOUNDATION

Report - May 1987

Federal Research Contracts/Grants

\$2,362,876.00 - International Development Cooperation Agency, Agency for International Development, Washington, D.C., Manpower for Agricultural Development in Uganda, Office of International Programs in Agriculture (P. R. Henderlong and J. L. Parsons), 1 November 1986 through 30 September 1988. (Project 764443 - Continuation)

\$684,000.00 - Department of the Army, Army Tank Automotive Command, Warren, Michigan, A Mobility System Design Study for an Agile Automatic Land Vehicle, Department of Electrical Engineering (C. A. Klein) and Department of Mechanical Engineering (K. J. Waldron), 1 January 1987 through 30 September 1987. (Project 764306 - Continuation)

\$673,258.00 - National Aeronautics and Space Administration, Langley Research Center, Hampton, Virginia, Radar Cross Section Studies, Department of Electrical Engineering, ElectroScience Laboratory (L. Peters, Jr., E. Newman, W. D. Burnside, and A. K. Dominek), 1 May 1987 through 30 April 1988. (Project 761608 - Continuation)

\$367,827.00 - Department of Health and Human Services, Public Health Service, National Institutes of Health, Bethesda, Maryland, Pathobiological Determinants of Atherosclerosis in Youth, Department of Surgery (J. F. Cornhill), 1 March 1987 through 29 February 1988. (Project 764727 - Continuation)

\$320,000.00 - National Science Foundation, Washington, D.C., Nuclear Physics at Low and Intermediate Energies, Including Investigations of Fundamental Symmetries and Nuclear Astrophysics, Department of Physics (S. L. Blatt, T. R. Donoghue, H. J. Hausman, and E. R. Sugarbaker), 1 May 1987 through 31 October 1988. (Project 764671 - Continuation)

\$261,300.00 - National Science Foundation, Washington, D.C., A Cooperative Paleoclimatic Study of the Dundee Ice Cap and Its Relationship to Global Climatic Variability, Byrd Polar Research Center (L. G. Thompson and E. Mosley-Thompson), 1 May 1987 through 30 April 1988. (Project 765310 - Continuation)

\$199,836.00 - National Aeronautics and Space Administration, Washington, D.C., Hypersonic Training and Research, Department of Aeronautical and Astronautical Engineering (J. D. Lee), 15 March 1987 through 14 March 1988. (Project 765979 - New)

\$158,853.00 - National Science Foundation, Washington, D.C., Motion Coordination for Mobile Robots in Unstructured Environments, Department of Electrical Engineering (C. A. Klein) and Department of Mechanical Engineering (N. Berme), 1 June 1987 through 31 May 1988. (Project 765122 - Continuation)

\$156,415.00 - Department of Health and Human Services, Public Health Service, National Institutes of Health, Bethesda, Maryland, Polycondensed Alicyclics and Their Antiviral Role, Department of Chemistry (L. A.

July 9 and 10, 1987 meeting, Board of Trustees

REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)

THE OHIO STATE UNIVERSITY RESEARCH FOUNDATION (contd)

Federal Research Contracts/Grants (contd)

Paquette), 1 May 1987 through 30 April 1988. (Project 763920 - Continuation)

\$149,227.00 - Department of Energy, Argonne, Illinois, The Hydrogen Induced Stress Corrosion Cracking of Nickel Base Alloys in High Temperature Water, Department of Metallurgical Engineering (P. G. Shewmon and S. S. Smialowska), 1 June 1987 through 31 May 1988. (Project 766068 - New)

\$140,943.00 - Department of Health and Human Services, Public Health Service, National Institutes of Health, Bethesda, Maryland, Genotoxicity in Human Fetal Brain, Dermis and Kidney Cells, Department of Radiology (S. M. D'Ambrosio and A. A. Wani), 1 June 1987 through 31 May 1988. (Project 763673 - Continuation)

\$137,000.00 - Department of Health and Human Services, Public Health Service, National Institutes of Health, Bethesda, Maryland, Upgrade EPIC 741 to 753 Cell Sorter: Sort Lock, EASY 88 and Microsample Delivery, Department of Veterinary Pathobiology (R. G. Olsen), 1 May 1987 through 30 April 1988. (Project 766031 - New)

\$135,000.00 - National Science Foundation, Washington, D.C., Liquid and Solid Helium at Very Low Temperatures, Department of Physics (D. O. Edwards), 1 April 1987 through 30 September 1988. (Project 764034 - Continuation)

\$128,785.00 - Environmental Protection Agency, Washington, D.C., Fate of DNA Damage in Human Fetal Cells, Department of Radiology (S. M. D'Ambrosio and A. A. Wani), 1 May 1987 through 30 April 1988. (Project 763308 - Continuation)

\$120,000.00 - National Science Foundation, Washington, D.C., The Spectroscopy of Chemical Intermediates and Other Transient Species, Department of Chemistry (T. A. Miller), 1 June 1987 through 31 May 1988. (Project 764814 - Continuation)

\$116,047.00 - Department of Education, Office of Postsecondary Education, Washington, D.C., National Resource Center for Slavic and East European Studies, Department of Slavic and East European Languages and Literatures (L. I. Twarog), 15 August 1987 through 14 August 1988. (Project 765593 - Continuation)

\$114,363.00 - Department of Health and Human Services, Public Health Service, National Institutes of Health, Bethesda, Maryland, Dietary Fat: Physiological Function, Department of Physiological Chemistry (H. W. Sprecher), 1 May 1987 through 30 April 1988. (Project 764415 - Continuation)

\$111,000.00 - International Development Cooperation Agency, Agency for International Development, Washington, D.C., Bangladesh Rural Finance Project, Department of Agricultural Economics and Rural Sociology (R. L.

July 9 and 10, 1987 meeting, Board of Trustees

REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)

THE OHIO STATE UNIVERSITY RESEARCH FOUNDATION (contd)

Federal Research Contracts/Grants (contd)

Meyer and D. H. Graham), 1 March 1987 through 30 September 1987.
(Project 763301 - Continuation)

\$104,046.00 - Department of Education, Office of Special Education and Rehabilitation Services, Washington, D.C., Preservice Training for Ohio School Psychologists to Provide Related Services Promoting Placement in the Least Restrictive Environment for Students Who are Severely Handicapped, College of Education - Administration (T. Stephens), 1 June 1987 through 31 May 1988. (Project 766059 - New)

\$103,014.00 - Department of Health and Human Services, Public Health Service, National Institutes of Health, Bethesda, Maryland, Function of the Enteric Nervous System, Department of Physiology (J. D. Wood), 1 May 1987 through 30 April 1988. (Project 765012 - Continuation)

\$103,000.00 - Department of Health and Human Services, Public Health Service, National Institutes of Health, Bethesda, Maryland, Purchase of an Electron Spin Resonance (ESR) Spectrometer, Department of Chemistry (L. J. Berliner, D. H. Busch, A. G. Marshall, and M. S. Platz), 1 May 1987 through 30 April 1988. (Project 766085 - New)

\$100,000.00 - National Aeronautics and Space Administration, Marshall Space Flight Center, Marshall Space Flight Center, Alabama, Provide Additional Development of a Coaxial Vision System for Robotic GTA Welding, Department of Welding Engineering (R. W. Richardson), 1 April 1987 through 31 March 1988. (Project 763891 - Continuation)

\$97,532.00 - Department of Health and Human Services, Public Health Service, National Institutes of Health, Bethesda, Maryland, Gastric Function -- Central Control, Department of Physiology (R. C. Rogers), 1 July 1987 through 30 June 1988. (Project 765541 - Continuation)

\$85,251.00 - Department of Health and Human Services, Public Health Service, Health Resources and Services Administration, Rockville, Maryland, Professional Nurse Traineeship Program, College of Nursing - Administration (C. A. Anderson), 1 July 1987 through 30 June 1988. (Project 760803 - New)

\$84,573.00 - National Science Foundation, Washington, D.C., Glaciology in Central Greenland, Byrd Polar Research Center (D. H. Elliot and J. Bolzan), 1 May 1987 through 30 April 1988. (Project 765363 - Continuation)

\$80,000.00 - Department of Agriculture, Science and Education, Washington, D.C., Validation and Extension of Models That Predict Yield Loss Due to Potato Early Dying, Department of Plant Pathology - OARDC (R. C. Rowe, R. M. Riedel, and L. V. Madden), 1 June 1987 through 31 May 1989. (Project 766063 - New)

\$78,000.00 - Department of Energy, Argonne, Illinois, Structure and Function of Methanogen Genes, Department of Microbiology (J. N. Reeve), 1 July 1987 through 30 June 1988. (Project 766060 - Continuation)

July 9 and 10, 1987 meeting, Board of Trustees

REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)

THE OHIO STATE UNIVERSITY RESEARCH FOUNDATION (contd)

Federal Research Contracts/Grants (contd)

\$71,708.00 - National Science Foundation, Washington, D.C., Equipment to Support Research in Knowledge Representation of Mechanical Design, Department of Engineering Graphics (M. B. Waldron), 1 June 1987 through 30 November 1988. (Project 766075 - New)

\$70,806.00 - National Science Foundation, Washington, D.C., Fundamental Studies in Elastohydrodynamic Lubrication, Department of Mechanical Engineering (B. J. Hamrock) 16 June 1987 through 30 June 1988. (Project 765242 - Continuation)

\$70,000.00 - Department of Energy, Argonne, Illinois, High Energy Physics, Department of Physics (H. P. Kagan and R. D. Kass), 1 January 1987 through 31 December 1987. (Project 762116 - Continuation)

\$69,420.00 - National Science Foundation, Washington, D.C., Functional Specificity of Neurons in Hypothalamic Tissue Slices, Department of Physiology (J. A. Boulant), 1 July 1987 through 31 December 1988. (Project 764687 - Continuation)

\$63,834.00 - Department of Health and Human Services, Public Health Service, National Institutes of Health, Bethesda, Maryland, Site Specific Modification of Human Cellular DNA, Department of Physiological Chemistry and Cancer Research Center (G. E. Milo), 30 September 1986 through 30 January 1988. (Project 765728 - Continuation)

\$60,000.00 - National Science Foundation, Washington, D.C., Wear and Thermal Characteristics of Hydrodynamic Journal Bearings with Provisions for Contamination Effects, Department of Engineering Graphics (M. M. Khonsari), 1 October 1987 through 31 March 1990. (Project 766040 - New)

\$60,000.00 - National Science Foundation, Washington, D.C., Modification of Heat Transfer Characteristics of Turbulent Boundary Layers by Large-Eddy Breakup Devices, Department of Mechanical Engineering (Y. G. Guezennec), 1 June 1987 through 30 November 1989. (Project 766090 - New)

\$58,797.00 - National Science Foundation, Washington, D.C., The Organization of Informational Structure in Articulator Movement and Acoustic Duration Patterns, Department of Linguistics (M. E. Beckman), 1 June 1987 through 30 November 1989. (Project 766069 - New)

\$55,531.00 - Department of Education, Office of Postsecondary Education, Washington, D.C., National Resource Fellowships, Department of Slavic and East European Languages and Literatures (L. I. Twarog), 15 August 1987 through 14 August 1988. (Project 765593 - Continuation)

\$55,496.00 - Department of Health and Human Services, Public Health Service, National Institutes of Health, Bethesda, Maryland, Role of Polyamines in Calmodulin and C-Kinase Regulation, Periodontics (J. D. Walters), 1 July 1987 through 30 June 1988. (Project 765508 - Continuation)

July 9 and 10, 1987 meeting, Board of Trustees

REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)

THE OHIO STATE UNIVERSITY RESEARCH FOUNDATION (contd)

Federal Research Contracts/Grants (contd)

\$54,771.00 - National Aeronautics and Space Administration, Washington, D.C., Role of Calmodulin and Calcium in Gravitropism, Department of Botany (M. L. Evans), 1 March 1987 through 29 February 1988. (Project 763005 - Continuation)

\$52,650.00 - National Science Foundation, Washington, D.C., Free Radical Cyclizations in Carbocycle Synthesis, Department of Chemistry (D. J. Hart), 1 September 1987 through 28 February 1989. (Project 764775 - Continuation)

\$52,300.00 - National Science Foundation, Washington, D.C., Algebraic Combinatorics: Association Schemes and Related Topics, Department of Mathematics (E. Bannai), 1 June 1987 through 30 November 1989. (Project 766072 - New)

\$50,000.00 - National Science Foundation, Washington, D.C., Lithospheric Analysis of Regional Antarctic Gravity and Magnetic Anomalies, Byrd Polar Research Center and Department of Geology and Mineralogy (R. R. B. Von Frese), 1 April 1987 through 31 March 1988. (Project 764662 - Continuation)

\$50,000.00 - National Science Foundation, Washington, D.C., Relativistic Optical Model at Intermediate Energies, Department of Physics (B. C. Clark), 1 July 1987 through 30 June 1988. (Project 765350 - Continuation)

\$46,500.00 - National Science Foundation, Washington, D.C., Secular Climate and Atmospheric Circulation Fluctuations over the Atlantic Area, Department of Geography (J. C. Rogers), 1 July 1987 through 29 February 1988. (Project 765243 - Continuation)

\$45,694.00 - Department of Health and Human Services, Public Health Service, National Institutes of Health, Bethesda, Maryland, Preclinical Pharmacology Investigations of Antitumor Agents, College of Pharmacy (L. Malspeis), 14 April 1987 through 30 July 1987. (Project 765385 - Continuation)

\$44,500.00 - National Science Foundation, Washington, D.C., Noise-Induced Turbulence in Superfluid Helium, Department of Physics (J. T. Tough), 1 May 1987 through 30 April 1988. (Project 766036 - New)

\$40,000.00 - National Aeronautics and Space Administration, Goddard Space Flight Center, Greenbelt, Maryland, Robust Estimation of Regional Deformations and Relative Plate Motions from Robust Estimation, Department of Geodetic Science and Surveying (I. I. Mueller), 1 July 1987 through 30 June 1988. (Project 761054 - Continuation)

\$40,000.00 - Department of Health and Human Services, Public Health Service, National Institutes of Health, Bethesda, Maryland, Normal Volunteers for Participation in Medical Research Projects, Department of Microbiology (A. M. Ackermann-Brown), 1 April 1987 through 31 March 1988. (Project 764072 - Continuation)

July 9 and 10, 1987 meeting, Board of Trustees

REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)

THE OHIO STATE UNIVERSITY RESEARCH FOUNDATION (contd)

Federal Research Contracts/Grants (contd)

\$38,800.00 - National Science Foundation, Washington, D.C., The Classification of Finite Simple Groups, Department of Mathematics (R. M. Solomon), 1 June 1987 through 31 May 1989. (Project 766049 - New)

\$34,581.00 - National Science Foundation, Washington, D.C., Theoretical and Empirical Studies of Communities in Stochastic Environments, Department of Zoology (P. L. Chesson), 1 June 1987 through 31 May 1988. (Project 766066 - New)

\$34,068.00 - Department of Health and Human Services, Public Health Service, National Institutes of Health, Bethesda, Maryland, International Conference: Biological Mechanisms of Tooth Eruption and Root Resorption, Orthodontics (Z. Davidovitch), 1 July 1987 through 30 June 1988. (Project 766076 - New)

\$30,205.00 - National Science Foundation, Washington, D.C., The James Ross Island Basin and the Evolution of the Antarctic Peninsula, Byrd Polar Research Center and Department of Geology and Mineralogy (D. H. Elliot), 1 May 1987 through 30 April 1988. (Project 765262 - Continuation)

\$25,000.00 - National Science Foundation, Washington, D.C., The Hurwitz Problem on Composition of Quadratic Forms, Department of Mathematics (P. Yiu), 1 June 1987 through 30 November 1989. (Project 766071 - New)

\$24,500.00 - National Science Foundation, Washington, D.C., Multiple Recurrence and Ergodic Ramsey Theory, Department of Mathematics (V. Bergelson), 1 June 1987 through 30 November 1989. (Project 766070 - New)

\$24,320.00 - Department of the Navy, Office of Naval Research, Washington, D.C., Ultrasonic Scattering from Defects, Department of Welding Engineering (L. Adler), 15 August 1986 through 30 September 1986. (Project 764595 - Continuation)

\$21,177.00 - Department of Health and Human Services, Public Health Service, Center for Disease Control, Atlanta, Georgia, Disorders of Reproduction Among Female Veterinarians, Department of Veterinary Preventive Medicine (W. D. Hueston), 1 May 1987 through 30 April 1988. (Project 766067 - New)

\$14,600.00 - National Science Foundation, Washington, D.C., Formal Systems and Combinatorics, Department of Mathematics (T. J. Carlson), 1 May 1987 through 30 April 1988. (Project 766044 - New)

\$11,988.00 - National Science Foundation, Washington, D.C., Module Theoretic Methods for Design and Control of Linear Systems, Department of Mathematics (B. Wyman), 1 August 1987 through 31 January 1991. (Project 766062 - New)

\$11,848.00 - Department of Health and Human Services, Public Health Service, National Institutes of Health, Bethesda, Maryland, Hypocholesterolemic Agents: Stereochemical Studies, College of Pharmacy (D.

July 9 and 10, 1987 meeting, Board of Trustees

REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)

THE OHIO STATE UNIVERSITY RESEARCH FOUNDATION (contd)

Federal Research Contracts/Grants (contd)

T. Witak and D. R. Feller) and Department of Pathology (H. A. Newman), 1 December 1986 through 30 November 1987. (Project 764517 - Continuation)

\$11,240.00 - Department of Health and Human Services, Public Health Service, National Institutes of Health, Bethesda, Maryland, Molecular Control in Cytochrome C Oxidase, Department of Physiological Chemistry (J. O. Alben), 1 January 1987 through 31 December 1987. (Project 762976 - Continuation)

\$10,421.00 - Department of Health and Human Services, Public Health Service, Health Resources and Services Administration, Rockville, Maryland, Traineeships for Students in Graduate Health Administration, Hospital and Health Services Administration (S. F. Loebs), 1 July 1987 through 30 June 1988. (Project 766053 - Continuation)

\$9,998.00 - Department of Health and Human Services, Office of Human Development Services, Administration for Children, Youth and Families, Washington, D.C., Department of Educational Policy and Leadership (L. L. Cunningham), 1 April 1987 through 31 July 1987. (Project 766058 - New)

\$8,220.00 - National Science Foundation, Washington, D.C., Doctoral Dissertation: The Perceived Extent and Seriousness of Deviance in Academic Science -- An Empirical Examination, Department of Sociology (S. Dinitz), 1 June 1987 through 31 August 1988. (Project 766041 - New)

\$8,000.00 - National Science Foundation, Washington, D.C., Travel for Cartographers to Participate in the International Cartographic Association in Morelia, Mexico, October 12-21, 1987, Department of Geography (H. J. Moellering), 1 April 1987 through 31 December 1987. (Project 766091 - New)

\$6,810.00 - Department of the Army, Army Materiel Command, Fort Belvoir, Virginia, Conduct a Review and Assessment of the In-Country Oconus Capital Chance Operations, Department of Geology and Mineralogy (J. J. Daniels), 1 May 1987 through 15 June 1987. (Project 766035 - New)

\$4,928.00 - Department of Health and Human Services, Public Health Service, National Institutes of Health, Bethesda, Maryland, Biochemistry of Craniofacial Epithelial Differentiation, Diagnostic Services (C. F. Shuler), 1 February 1987 through 31 January 1988. (Project 765236 - Continuation)

\$4,500.00 - Department of Health and Human Services, Public Health Service, National Institutes of Health, Bethesda, Maryland, Animal Model for Otitis Media with Effusion, Department of Otolaryngology (D. J. Lim), 1 August 1987 through 30 September 1987. (Project 765558 - Continuation)

\$4,279.00 - Department of Health and Human Services, Public Health Service, National Institutes of Health, Bethesda, Maryland, FSH and the Regulation of Ovarian Folliculogenesis, Department of Anatomy (B. E. Batten), 1 February 1987 through 31 March 1987. (Project 765914 - New)

July 9 and 10, 1987 meeting, Board of Trustees

REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)

THE OHIO STATE UNIVERSITY RESEARCH FOUNDATION (contd)

Federal Research Contracts/Grants (contd)

\$4,004.00 - National Science Foundation, Washington, D.C., Purification of Multicomponent Liquid Mixtures by the Dual Recycle Thermal Swing Adsorption Process, Department of Chemical Engineering (K. S. Knaebel), 15 January 1988 through 30 November 1988. (Project 765859 - Continuation)

\$2,500.00 - Defense Mapping Agency, Washington, D.C., The African Doppler Surveys (ADOS) Project, Department of Geodetic Science and Surveying (I. I. Mueller), 15 May 1987 through 30 September 1987. (Project 766084 - New)

Equipment - Department of Energy, Idaho Falls, Idaho, Energy-Related Laboratory Equipment, Engineering Experiment Station (J. W. Tainagi), 5 May 1987 through 31 July 1987. (Project 766054 - New) (Approximate Dollar Value - \$11,077)

TOTAL - FEDERAL AWARDS **\$8,630,140.00**

State of Ohio Research Contracts/Grants

\$15,000.00 - State of Ohio, Department of Urban Affairs, Columbus, Ohio, Society Against Felony Encounters (SAFE), University Police (L. Johnson), 1 January 1987 through 31 December 87. (Project 765937 - New)

\$10,172.00 - State of Ohio, Department of Urban Affairs, Columbus, Ohio, Master Parenting, Cooperative Extension Field Operations (J. C. Graham), 1 April 1987 through 31 March 1988. (Project 766052 - New)

\$2,500.00 - State of Ohio, Department of Urban Affairs, Columbus, Ohio, Building on Family Strengths, Cooperative Extension Field Operations (R. J. Cropper), 1 April 1987 through 31 March 1988. (Project 766048 - New)

TOTAL - STATE OF OHIO AWARDS **\$ 27,672.00**

Industrial Research Contracts/Grants

\$120,000.00 - Minnesota Mining and Manufacturing Company, St. Paul, Minnesota, Green Colors from Nickel Complexes, Department of Chemistry (D. H. Busch), 1 May 1987 through 30 April 1989. (Project 764468 - Continuation)

\$19,731.14 - E. R. Squibb and Sons, Princeton, New Jersey, Safety and Efficacy of Nystatin Vaginal Suppositories Compared to Clotrimazole and Placebo, College of Pharmacy (J. A. Visconti) and University Health Service (D. I. Charles), 1 April 1987 through 31 December 1987. (Project 766065 - New)

\$18,325.45 - A. H. Robbins Company, Richmond, Virginia, Evaluation of Xylazine and Telazol® for Anesthesia in Horses, Department of Veterinary Clinical Sciences (W. W. Muir III and J. A. E. Hubbell), 1 May 1987 through 31 October 1987. (Project 766074 - New)

July 9 and 10, 1987 meeting, Board of Trustees

REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)

THE OHIO STATE UNIVERSITY RESEARCH FOUNDATION (contd)

Industrial Research Contracts/Grants (contd)

\$15,138.00 - AT&T Bell Laboratories, Columbus, Ohio, Improving the Written Skills of Non Native Speakers of English in the Work Setting, English/Second Language (R. N. Kantor), 1 April 1987 through 30 June 1987. (Project 766047 - Continuation)

\$14,775.00 - CIBA-GEIBY Corporation, Greensboro, North Carolina, Evaluation of Candidate Materials for the Control of Ectoparasitic Insects, Department of Entomology (W. F. Hink), 1 June 1987 through 1 November 1987. (Project 766087 - New)

\$6,066.00 - AT&T Bell Laboratories, Columbus, Ohio, Improving the Oral Communication Skills of Non Native Speakers of English in the Work Setting, English/Second Language (R. N. Kantor), 2 April 1987 through 30 June 1987. (Project 766039 - Continuation)

\$1,567.17 - Boeing Company, Seattle, Washington, Compact Range Performance Analysis, Department of Electrical Engineering, ElectroScience Laboratory (J. D. Young), 1 February 1987 through 1 December 1987. (Project 765919 - Continuation)

\$360.00 - American Electric Power Service Corporation, Columbus, Ohio, Contract Consulting Agreement for Mussel Mitigation, Department of Zoology (D. H. Stansbery), 1 May 1987 through 30 September 1987. (Project 765732 - Continuation)

TOTAL - INDUSTRIAL AWARDS

\$ 195,962.76

Other Non-Federal Research Contracts/Grants

\$8,642,100.00 - Midwest Universities Consortium for International Activities, Inc., Columbus, Ohio, The Indonesia Second University Development Project -- JMO Support Office, Office of International Affairs (D. G. McCloud), 27 January 1987 through 31 December 1991. (Project 766028 - New)

\$2,278,250.00 - Midwest Universities Consortium for International Activities, Inc., Columbus, Ohio, The Indonesia Second University Development Project -- JMO Support Office, Office of International Affairs (D. G. McCloud), 27 January 1987 through 31 December 1991. (Project 766029 - New)

\$327,579.00 - Midwest Universities Consortium for International Activities, Inc., Champaign, Illinois, The Indonesia Second University Development Project -- Life Sciences Program, Department of Entomology (J. D. Briggs), 27 January 1987 through 31 December 1991. (Project 766025 - New)

\$274,923.00 - Franklin County Mental Retardation and Developmental Disabilities Board, Columbus, Ohio, Early Childhood Classes, Nisonger Center (S. R. Schroeder), 1 October 1987 through 30 September 1988. (Project 766094 - Continuation)

July 9 and 10, 1987 meeting, Board of Trustees

REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)

THE OHIO STATE UNIVERSITY RESEARCH FOUNDATION (contd)

Other Non-Federal Research Contracts/Grants (contd)

\$138,737.00 - American Institute of Indian Studies, Minneapolis, Minnesota, American Institute of Indian Studies Center for Art and Archaeology, Department of History of Art (S. L. Huntington), 1 January 1987 through 30 June 1987. (Project 766037 - New)

\$98,148.00 - Franklin County Mental Retardation and Developmental Disabilities Board, Columbus, Ohio, Exemplary Dental Services for the Handicapped, Nisonger Center (E. S. Sterling), 1 July 1987 through 30 June 1988. (Project 766086 - Continuation)

\$69,800.00 - Midwest Universities Consortium for International Activities, Inc., Champaign, Illinois, Burma Maize and Oilseeds Production Project, Office of International Programs in Agriculture and Department of Agronomy (F. G. Calhoun, Jr.), 26 October 1986 through 31 March 1988. (Project 763368 - Continuation)

\$46,148.00 - Muscular Dystrophy Association, New York, New York, Complement Membrane Attack Complex in Dermatomyositis, Department of Neurology (J. T. Kissel), 1 July 1987 through 30 June 1988. (Project 766043 - New)

\$37,614.00 - Southeastern Poultry and Egg Association, Decatur, Georgia, Assessing the Potential Pathogenicity of Waterfowl Influenza Viruses, Department of Veterinary Preventive Medicine (R. D. Slemons), 1 May 1987 through 30 April 1989. (Project 766034 - New)

\$32,300.00 - Duke Power Company, Huntersville, North Carolina, Consortium for the Development of Instructor Training Materials for the Electric Power Industry - Phase II, The National Center for Research in Vocational Education (R. D. Ryan, Jr.), 1 April 1987 through 31 July 1988. (Project 766021 - Continuation)

\$31,000.00 - Butler County Department of Human Services, Hamilton, Ohio, Development of Living Skills, Cooperative Extension Field Operations (P. H. Simmons), 1 December 1986 through 30 November 1987. (Project 765233 - Continuation)

\$30,700.00 - American Diabetes Association, Inc., Alexandria, Virginia, Effect of Streptozotocin Diabetes on Hepatic UDP-Glucuronyltransferase Activities, Department of Internal Medicine (R. B. Kirkpatrick), 1 July 1987 through 30 June 1988. (Project 766055 - New)

\$23,000.00 - Easter Seal Research Foundation, Chicago, Illinois, Gait Analysis of the Effects of Inhibitive Casts and Orthotics in Cerebral Palsy, Department of Physical Medicine (W. S. Pease and R. J. Bobulski), 1 July 1987 through 30 June 1988. (Project 766073 - New)

\$21,956.00 - University Space Research Association, Houston, Texas, Department of Aeronautical and Astronautical Engineering (G. M. Gregorek), 15 September 1986 through 15 June 1987. (Project 765736 - New)

July 9 and 10, 1987 meeting, Board of Trustees

REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)

THE OHIO STATE UNIVERSITY RESEARCH FOUNDATION (contd)

Other Non-Federal Research Contracts/Grants (contd)

\$20,000.00 - Getty Center for Education in the Arts, Los Angeles, California, The Regional Institute Grant Program, Department of Art Education (N. MacGregor), 14 March 1987 through 14 September 1987. (Project 766057 - New)

\$15,200.00 - Southeastern Center for Electrical Engineering Education, St. Cloud, Florida, Self-Consistent Modeling of Resonant Tunneling, Department of Electrical Engineering (P. Roblin), 7 May 1987 through 30 October 1987. (Project 766080 - New)

\$15,000.00 - World Health Organization, Geneva, Switzerland, Further Uses of the Murine Rotavirus Model: Evaluation of Potential Vaccines, Oral Biology (J. F. Sheridan), 1 April 87 through 31 March 1988. (Project 764620 - Continuation)

\$15,000.00 - American Heart Association, Ohio Affiliate, Inc., Columbus, Ohio, Photoaffinity Labeling of Coumarin-Sensitive Enzymes in Liver, Department of Biochemistry (R. P. Swenson), 1 July 1987 through 30 June 1988. (Project 766082 - New)

\$14,000.00 - March of Dimes Birth Defects Foundation, White Plains, New York, Infants at Risk for Communicative Disorders: Predicting Language Development from Infant Phonetic Contrast and Very Low Birth Weight, Department of Communication (H. Bauer), 1 March 1987 through 29 February 1988. (Project 766077 - New)

\$9,760.00 - Plymouth State College, Plymouth, New Hampshire, New Hampshire Comprehensive Guidance Curriculum Project, The National Center for Research in Vocational Education (R. D. Ryan, Jr.), 1 April 1987 through 31 July 1987. (Project 766046 - New)

\$9,500.00 - Maryhaven Incorporated, Columbus, Ohio, Graduate Student Internship, Department of Educational Theory and Practice (J. J. Quaranta), 1 January 1987 through 31 December 1987. (Project 766079 - New)

\$7,500.00 - National Pork Producers Council, Des Moines, Iowa, Effect of Early Weaning on the Activity of Circulating Myogenic and Adipogenic Factors in Swine, Department of Animal Science - OARDC and Department of Animal Science (M. E. White, T. G. Ramsay, and D. C. Mahan), 1 July 1987 through 30 June 1988. (Project 766042 - New)

\$7,000.00 - Southeastern Center for Electrical Engineering Education, St. Cloud, Florida, Laser Spectroscopic Diagnostics of RF Plasmas, Department of Chemistry (T. A. Miller), 1 April 1987 through 30 September 1987. (Project 766061 - New)

\$6,525.00 - Cancer Therapy and Research Foundation of South Texas, San Antonio, Texas, SWOG Study 8501, Intraperitoneal Cys-Platinum/Intravenous Cyclophosphamide Versus Intravenous Cis-Platinum/Intravenous Cyclophosphamide in Patients with Non-Measurable (Optimal) Disease, Stage III

July 9 and 10, 1987 meeting, Board of Trustees

REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)

THE OHIO STATE UNIVERSITY RESEARCH FOUNDATION (contd)

Other Non-Federal Research Contracts/Grants (contd)

Ovarian Cancer, Department of Pathology (R. O'Toole), 1 October 1986 through 30 September 1987. (Project 765855 - Continuation)

\$5,553.00 - Columbus Technical Institute, Columbus, Ohio, Intramural and Recreation Internship Program, School of Health, Physical Education and Recreation (W. A. Sutton), 1 January 1987 through 30 June 1987. (Project 766050 - New)

\$4,800.00 - Tourette Syndrome Association of Ohio, Milford, Ohio, The 1987 Ohio Tourette Study, Department of Psychiatry (R. A. Bornstein), 1 January 1987 through 30 June 1987. (Project 766032 - New)

\$4,212.00 - North Atlantic Treaty Organization, Bruxelles, Belgium, Propagation of Bulk and Surface Waves in Inhomogeneous Porous Materials, Department of Welding Engineering (L. Adler), 31 March 1987 through 31 March 1988. (Project 766011 - New)

\$3,750.00 - North Carolina State Board of Education, Raleigh, North Carolina, National Career Guidance Consortium, The National Center for Research in Vocational Education (R. D. Ryan, Jr.), 1 July 1986 through 30 June 1987. (Project 765651 - Continuation)

\$3,625.00 - Cancer Therapy and Research Foundation of South Texas, San Antonio, Texas, Mesothelioma Pathology Review -- Chairman's Support, Department of Pathology (J. G. Lucas and S. E. Tuttle), 1 January 1987 through 31 December 1987. (Project 764837 - Continuation)

\$2,000.00 - Tourette Syndrome Association of Ohio, Milford, Ohio, Identification of Neurochemical Subgroups in Tourette's Syndrome: Neuropsychological and Electroencephalographic Correlates, Department of Psychiatry (R. A. Bornstein), 1 January 1987 through 30 June 1987. (Project 766033 - New)

\$1,500.00 - International Society of Arboriculture, Urbana, Illinois, The Effects of Fertilizer Types and Level on Verticillium Wilt of Woody Ornamentals, Department of Horticulture - OARDC and Department of Horticulture (T. D. Sydnor), 9 April 1987 through 31 March 1988. (Project 766045 - New)

TOTAL - OTHER NON-FEDERAL AWARDS

\$12,197,180.00

ENGINEERING EXPERIMENT STATION

Industrial and Other Sponsored Research and Development

\$52,500.00 - Teledyne CAE, Toledo, OH, "Propfan Characterization Study," Department of Electrical Engineering, 15 May 1987 through 14 May 1988. (312414)

\$50,000.00 - Additional funding from AT&T Foundation, New York, NY, "Development of Graduate Courses in Manufacturing Systems Engineering,"

July 9 and 10, 1987 meeting, Board of Trustees

REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)

ENGINEERING EXPERIMENT STATION (contd)

Industrial and Other Sponsored Research and Development (contd)

Department of Industrial and Systems Engineering, 1 May 1986 through 30 April 1989. (529704, Ext. 1)

\$40,000.00 - from various industry for membership in "The Engineering Research Center on Net-Shape Manufacturing," Engineering Experiment Station. (529200)

\$30,924.00 - EPRI, Palo Alto, CA, "Influence of Hydrogen on PWSCC of Alloy 600 Tubing," Department of Metallurgical Engineering, 24 April 1987 through 28 February 1988. (312412)

\$26,830.00 - from 27 sponsors of 32 projects under the direction of four research areas/departments.

\$23,400.00 - General Electric, Cincinnati, OH, "Effects of Alloying Elements on the Weldability of Investment Cast Superalloys," Department of Welding Engineering, 1 May 1987 through 30 April 1988. (529729)

TOTAL - INDUSTRIAL AND OTHER SPONSORED RESEARCH \$ 223,654.00

THE OHIO STATE UNIVERSITY DEVELOPMENT FUND

Establishment of Named Funds

Ameritech Endowment Fund

The Ameritech Endowment Fund was established July 10, 1987, by the Board of Trustees of The Ohio State University, with gifts to The Ohio State University Development Fund from Ameritech Foundation, Chicago, Illinois.

All gifts are to be invested in the University's Permanent Endowment Fund, under the rules and regulations adopted by the Board of Trustees, with the right to invest and reinvest as occasion dictates.

The annual income shall be used in support of faculty/research fellowships, graduate fellowships, visiting fellowships and prize grants in the Graduate School, all of which shall be within the parameters outlined by Ameritech as the goals and objectives of the Ameritech Fellowship Program.

The initial endowment shall be \$15,000.00 set aside in the first year, with the total amount set aside from the grant to reach \$100,000.00 by the end of the five-year period. The fund will be administered by the Dean of the Graduate School who shall be responsible for annually reporting to the Ameritech Foundation on how its grant has been used by the University.

It is the desire of the donor that this fund should benefit the University in perpetuity. Should the need for this fund cease to exist or so diminish as to provide unused income, then another use shall be designated by the Board of Trustees in order to carry out the desire of the donor.

July 9 and 10, 1987 meeting, Board of Trustees

REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)

THE OHIO STATE UNIVERSITY DEVELOPMENT FUND (contd)

Establishment of Named Funds (contd)

The Law Centennial Building Fund

The Law Centennial Building Fund was established July 10, 1987, by the Board of Trustees of The Ohio State University, with gifts to The Ohio State University Development Fund from alumni and friends of the College of Law in celebration of the Centennial Anniversary of the College.

All gifts are to be invested in the University's Permanent Endowment Fund, under the rules and regulations adopted by the Board of Trustees, with the right to invest and reinvest as occasion dictates.

The annual income shall be added to the principal until the University makes a final determination on the financing arrangements of the Law Building Addition and Renovation Project. The College of Law reserves the right to invade the principal to cover building-related costs and fees following the final determination of the financing arrangements.

It is the desire of the donor(s) that this fund should benefit the University in perpetuity. Should the need for this fund cease to exist or so diminish as to provide unused income, then another use shall be designated by the Board of Trustees in order to carry out the desire of the donor(s).

Phi Kappa Phi OSU Chapter Scholarship for Graduate Students

The Phi Kappa Phi OSU Chapter Scholarship for Graduate Students was established July 10, 1987, by the Board of Trustees of The Ohio State University, with gifts to The Ohio State University Development Fund from The Ohio State University Chapter of Phi Kappa Phi.

All gifts are to be invested in the University's Permanent Endowment Fund, under the rules and regulations adopted by the Board of Trustees, with the right to invest and reinvest as occasion dictates.

The annual income shall be used to provide a scholarship to one or more graduate students at The Ohio State University. The scholarship is to be awarded to a student exhibiting academic excellence in any field of study. Neither financial need nor membership in Phi Kappa Phi is to be among criteria used for selection of the recipient(s). Selection of the recipient is to be made by the Graduate School and the Awards Committee of the Phi Kappa Phi Ohio State University chapter in coordination with the Office of Student Financial Aid.

It is the desire of the donor that this fund should benefit the University in perpetuity. Should the need for this fund cease to exist or so diminish as to provide unused income, then another use shall be designated by the Board of Trustees in order to carry out the desire of the donor.

July 9 and 10, 1987 meeting, Board of Trustees

REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)

THE OHIO STATE UNIVERSITY DEVELOPMENT FUND (contd)

Establishment of Named Funds (contd)

The David Louis Mitchell Civic Action Award

The David Louis Mitchell Civic Action Award was established July 10, 1987, by the Board of Trustees of The Ohio State University, with gifts to The Ohio State University Development Fund from Glen H. and Anna Belle Mitchell, in honor of their son, David Louis Mitchell.

All gifts are to be invested in the University's Permanent Endowment Fund, under the rules and regulations adopted by the Board of Trustees, with the right to invest and reinvest as occasion dictates.

The annual income shall be used to provide grants to individual student(s) and/or student organization(s). Those grants are to support creative action-oriented projects enabling interested students to ameliorate economic or social problems in the larger community or on campus. The projects will be under the jurisdiction of The Ohio State University Office of Student Life with assistance of a committee composed of the chairperson or their representatives from the Department(s) of (1) Family Resource Management, (2) Agricultural Economics and Rural Sociology, and (3) the Faculty of Marketing. Emphasis will be placed on those projects aimed at workable solutions employing the disciplines represented by the above committee.

A written report will be made annually to the Mitchells of the project(s) selected and their progress. At the end of every six (6) years, the Award policy and procedures will be reviewed by the committee and the donors.

It is the desire of the donors that this fund should benefit the University in perpetuity. Should the need for this fund cease to exist or so diminish as to provide unused income, then another use shall be designated by the Board of Trustees in order to carry out the desire of the donors.

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**REQUEST FOR CONSTRUCTION BIDS AND
ESTIMATE OF COST - FUNDING**

Resolution No. 88-10

Synopsis: Authorization to request construction bids is proposed.

WHEREAS the plans and specifications for these projects have been completed and, at the request of the Vice President for Business and Administration, the President recommended that the Board of Trustees authorize the request for construction bids:

July 9 and 10, 1987 meeting, Board of Trustees

**REQUEST FOR CONSTRUCTION BIDS AND
ESTIMATE OF COST - FUNDING (contd)**

**DOAN HALL 5 NORTH
LABORATORY/OFFICE AREAS**

Project: Renovation of a portion of the fifth floor, north wing of Doan Hall from patient and nursery rooms into office areas and laboratories for the Chairperson of Surgery and the Chairperson of Obstetrics/Gynecology and their laboratory personnel.

Funding: University Hospitals Funds

Estimated Construction Cost: \$351,811.00

Estimated Project Cost: \$399,260.00

DOAN HALL - CAP KOLD SYSTEM

Project: Renovation of Rooms 075A and 175A of Doan Hall to accommodate the installation of a cook/chill food production system, including ice builder, mixing kettles, pump fill station and batch casing cooler. This type of production is a 'closed' system, food never is exposed to the atmosphere during preparation, thus, reducing exposure to possible contamination.

Funding: University Hospitals Funds

Estimated Construction Cost: \$120,000.00

Estimated Project Cost: \$159,660.00

DOAN HALL - CRI MATERIALS HANDLING STAGING AREA

Project: Renovation of an area on the ground floor of Doan Hall to provide clean and soiled holding areas to support the material handling system for the Cancer Research Institute.

Funding: University Hospitals Funds

Estimated Construction Cost: \$ 97,000.00

Estimated Project Cost: \$125,360.00

NOW THEREFORE

BE IT RESOLVED, That the President and/or Vice President for Business and Administration be authorized, in accordance with established University procedures, to request construction bids on these projects, and if

July 9 and 10, 1987 meeting, Board of Trustees

**REQUEST FOR CONSTRUCTION BIDS AND
ESTIMATE OF COST - FUNDING (contd)**

satisfactory bids are received, to award the necessary contracts, with all actions to be reported to this Board at the appropriate time.

Upon motion of Mr. Barone, seconded by Mr. Berry, the Board of Trustees adopted the foregoing resolution by unanimous roll call vote.

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**REPORT OF AWARD OF CONTRACTS AND
ESTABLISHMENT OF CONTINGENCY FUNDS**

Resolution No. 88-11

Synopsis: Contracts have been awarded for the projects listed below to the lowest and best bidders in accordance with University procedures.

WHEREAS resolutions adopted by the Board of Trustees at previous meetings authorized the President and/or Vice President for Business and Administration, to sign the plans and specifications and, in accordance with established University procedures, to request bids and, if satisfactory bids were received, to recommend to the Department of Administrative Services, Division of Public Works, the award of contracts for the Enarson Hall Renovation project; and

WHEREAS resolutions adopted by the Board of Trustees at previous meetings authorized the President and/or Vice President for Business and Administration to sign the plans and specifications and, in accordance with established University procedures, to request bids and, if satisfactory bids were received, to recommend the award of contracts for the Arps Parking Garage Expansion, Northwest Utilities Phase I - Water Lines, 18th Avenue Extension, and Veterinary Hospital - Chiller Replacement projects, as follows:

**ENARSON HALL RENOVATION
(STUDENT SERVICES BUILDING)**

Description: This project provides for the renovation and updating of all building support systems, utility distribution systems and rest rooms, conversion of the electrical service to the 13.8KV distribution system, and the installation of a new HVAC system. Construction is scheduled to begin July 1987, and be completed July 1988.

General Contract

Date Received:	May 12, 1987
No. of Bids:	4
Low Bid:	\$1,449,296.00*
High Bid:	\$2,093,400.00*

* Recommended alternates reflected in these figures.

July 9 and 10, 1987 meeting, Board of Trustees

**REPORT OF AWARD OF CONTRACTS AND
ESTABLISHMENT OF CONTINGENCY FUNDS**

**ENARSON HALL RENOVATION
(STUDENT SERVICES BUILDING) (contd)**

General Contract (contd)

Estimate of Cost: \$1,525,300.00*

Awarded to: Gutknecht Construction Co., Columbus, OH

Plumbing and Fire Protection Contract

Date Received: May 12, 1987

No. of Bids: 3

Low Bid: \$ 214,100.00*

High Bid: \$ 291,564.00*

Estimate of Cost: \$ 267,500.00*

Awarded to: J.A. Croson Co., Columbus, OH

HVAC Contract

Date Received: May 12, 1987

No. of Bids: 2

Low Bid: \$ 570,300.00*

High Bid: \$ 594,000.00*

Estimate of Cost: \$ 573,700.00*

Awarded to: J.A. Guy, Inc., Dublin, OH

Electric Contract

Date Received: May 12, 1987

No. of Bids: 4

Low Bid: \$ 428,076.00*

High Bid: \$ 562,400.00*

Estimate of Cost: \$ 474,600.00*

Awarded to: Buckeye Electric Co., Dayton, OH

Total All Contracts: \$2,661,772.00*

* Recommended alternates reflected in these figures.

July 9 and 10, 1987 meeting, Board of Trustees

**REPORT OF AWARD OF CONTRACTS AND
ESTABLISHMENT OF CONTINGENCY FUNDS (contd)**

**ENARSON HALL RENOVATION
(STUDENT SERVICES BUILDING) (contd)**

Asbestos Removal	\$ 39,000.00
Total Contingency Allowance:	\$ 194,803.32 (which is 7% of construction costs)
Total Project Cost:	\$3,223,135.00*
Funding:	SB 348; HB 870 U & R and University Funds

* Recommended alternates reflected in these figures.

ARPS PARKING GARAGE EXPANSION

Description: This project will add two floors to the existing garage providing 288 parking spaces, a new elevator, new lighting, and new directional signage. Construction is scheduled to begin July 1987 and be completed by September 7, 1988.

General Contract

Date Received:	June 9, 1987
No. of Bids:	2
Low Bid:	\$1,697,000.00
High Bid:	\$2,845,000.00
Estimate of Cost:	\$1,884,000.00
Awarded to:	Sherman Smoot Co., Columbus, OH

Plumbing Contract

Date Received:	June 9, 1987
No. of Bids:	4
Low Bid:	\$ 16,275.00
High Bid:	\$ 39,940.00
Estimate of Cost:	\$ 65,000.00
Awarded to:	Farber Corp., Columbus, OH

Electric Contract

Date Received:	June 9, 1987
No. of Bids:	5

July 9 and 10, 1987 meeting, Board of Trustees

REPORT OF AWARD OF CONTRACTS AND
ESTABLISHMENT OF CONTINGENCY FUNDS (contd)

ARPS PARKING GARAGE EXPANSION (contd)

Electric Contract (contd)

Low Bid:	\$ 294,000.00*
High Bid:	\$ 396,622.00*
Estimate of Cost:	\$ 560,650.00*
Awarded to:	Demos Electric, Columbus, OH
Total All Contracts:	\$2,007,275.00*
Total Contingency Allowance:	\$ 192,521.40 (which is 10% of construction costs)
Total Project Cost:	\$2,280,000.00*
Funding:	University Funds

* Recommended alternate reflected in these figures.

NORTHWEST UTILITIES PHASE I - WATER LINES

Description: This portion of the project provides for increased water supply to the northwest quadrant of the campus, including the Multi-Sport Complex, the new Child Care Center, Buckeye Village, the new Stores & Receiving Building, Bulk Chemical Warehouse, Service Building Annex, and the Laundry/Print Facility. This extension of the water lines will also serve the future development of this area of the campus. Construction is scheduled to begin July 1987 and be completed by October 30, 1987.

General Contract

Date Received:	June 15, 1987
No. of Bids:	5
Low Bid:	\$ 351,850.00
High Bid:	\$ 449,084.95
Estimate of Cost:	\$ 446,750.00
Awarded to:	Concrete Construction, Columbus, OH
Total All Contracts:	\$ 351,850.00
Installation-Child Care Ctr.	\$ 17,284.80
Total Contingency Allowance:	\$ 29,288.25 (which is 8% of construction costs)

July 9 and 10, 1987 meeting, Board of Trustees

**REPORT OF AWARD OF CONTRACTS AND
ESTABLISHMENT OF CONTINGENCY FUNDS (contd)**

NORTHWEST UTILITIES PHASE I - WATER LINES (contd)

Total Project Cost: \$ 433,000.00
Funding: 1986 Series A & B Bonds

18TH AVENUE EXTENSION

Description: This road construction project provides for the extension of 18th Avenue from High Street to the east side of Arps Parking Garage. A ramp will also be constructed from 18th Avenue to the east side of the Arps Parking Garage. Construction is scheduled to begin June 1987, and be totally completed within ninety days.

General Contract

Date Received: May 21, 1987
No. of Bids: 4
Low Bid: \$159,179.75
High Bid: \$222,210.74
Estimate of Cost: \$159,725.00
Awarded to: Concrete Construction, Columbus, OH
Total All Contracts: \$159,179.75
Total Contingency Allowance: \$ 12,749.52 (which is 8% of construction costs)
Total Project Cost: \$215,300.00
Funding: University Funds

VETERINARY HOSPITAL - CHILLER REPLACEMENT

Description: This project provides for the replacement of the inoperative absorption chiller with a new centrifugal chiller. Payback is expected within one year. Construction is scheduled to begin July 1987, and be completed within one hundred fifty days.

HVAC Contract

Date Received: June 10, 1987
No. of Bids: 6
Low Bid: \$135,000.00

July 9 and 10, 1987 meeting, Board of Trustees

**REPORT OF AWARD OF CONTRACTS AND
ESTABLISHMENT OF CONTINGENCY FUNDS (contd)**

VETERINARY HOSPITAL - CHILLER REPLACEMENT (contd)

HVAC Contract (contd)

High Bid:	\$146,980.00*
Estimate of Cost:	\$142,000.00
Awarded to:	Farber Corp., Columbus, OH

Electric Contract

Date Received:	June 10, 1987
No. of Bids:	5
Low Bid:	\$ 21,700.00
High Bid:	\$ 32,286.00
Estimate of Cost:	\$ 22,000.00
Awarded to:	Hi-Tech Electric, Columbus, OH

Total All Contracts: \$156,700.00*

Total Contingency Allowance: \$ 11,449.90 (which is 7% of construction costs)

Total Project Cost: \$198,000.00*

Funding: University Funds

* Recommended alternate reflected in these figures.

NOW THEREFORE

BE IT RESOLVED, That pursuant to the actions previously authorized by the Board, the award of contracts and the establishment of project funds and contingency funds for the projects listed above are hereby approved.

Upon motion of Mr. Immke, seconded by Mr. Barone, the Board of Trustees adopted the foregoing resolution by unanimous roll call vote.

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**EASEMENT
VILLAGE OF ONTARIO**

Resolution No. 88-12

Synopsis: Authorization to grant an easement to the Village of Ontario in Richland County, Ohio, for water utilities is requested.

July 9 and 10, 1987 meeting, Board of Trustees

**EASEMENT
VILLAGE OF ONTARIO (contd)**

WHEREAS the Village of Ontario has requested a 15-year easement consisting of a strip of land approximately 925.35 feet in length and 25 feet in width for the purpose of construction, operation, maintenance and repair of a water line, sanitary sewer, roadway and storm drainage at the Mansfield Regional Campus; and

WHEREAS the easement will serve University property and private properties; and

WHEREAS the appropriate University offices have recommended that this easement be granted:

NOW THEREFORE

BE IT RESOLVED, That the President and/or Vice President for Business and Administration be authorized to request the Deputy Director of Public Works of the Department of Administrative Services, pursuant to his statutory duties, to act for and on behalf of the University in developing the necessary legal instruments to provide for this easement.

Upon motion of Mr. Immke, seconded by Mr. Barone, the Board of Trustees adopted the foregoing resolution by unanimous roll call vote.

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**APPOINTMENT OF INVESTMENT ADVISORS
AND REAPPOINTMENT OF INVESTMENT ADVISORS**

Resolution No. 88-13

Synopsis: Appointment of Investment Advisors and Reappointment of Investment Advisors is proposed.

WHEREAS it is the policy of The Ohio State University to utilize the services of external Investment Advisors to assist in the management of the University's Endowment Fund; and

WHEREAS the Fiscal Affairs Committee of the Board of Trustees periodically reviews the results obtained by named external Investment Advisors and the amount of funds assigned to each of them; and

WHEREAS it is prudent investment policy to adjust the mix and amounts of money assigned to external Investment Advisors as economic conditions change; and

WHEREAS the Fiscal Affairs Committee has directed the Treasurer to maintain \$10,000,000 of the Endowment Fund in long term United States Government or Agency securities under the University Investments Policy; and

WHEREAS the number of external Investment Advisors and the amount of funds assigned to them shall be determined by the Board of Trustees:

NOW THEREFORE

July 9 and 10, 1987 meeting, Board of Trustees

**APPOINTMENT OF INVESTMENT ADVISORS
AND REAPPOINTMENT OF INVESTMENT ADVISORS (contd)**

BE IT RESOLVED, That upon the recommendation of the Fiscal Affairs Committee of the Board of Trustees the following named external Investment Advisors shall be appointed and the following named external Investment Advisors shall be reappointed to counsel in the management of Endowment Fund investments totaling the initial amounts indicated:

Cambridge Financial Group, Inc. (New appointment)	\$ 1,000,000
Centerre Trust Company	\$20,000,000
The Chicago Corporation	\$25,000,000
Duff and Phelps Investment Management Company (New appointment)	\$10,000,000
Neuberger & Berman Mutual Funds:	
Energy Fund	\$ 2,000,000
Guardian Fund	\$ 2,000,000
Partners Fund	\$ 1,000,000
Nicholas-Applegate Capital Management	\$10,000,000
Siebel Capital Management, Incorporated	\$21,000,000
STW Fixed Income Management, Incorporated	\$20,000,000

Upon motion of Mr. Kessler, seconded by Mr. Barone, the Board of Trustees adopted the foregoing resolution by unanimous roll call vote.

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**AMENDMENT TO THE CODE OF REGULATIONS OF
OHIO STATE UNIVERSITY AFFILIATES, INC.**

Resolution No. 88-14

Synopsis: Amendment to the Code of Regulations of the Ohio State University Affiliates, Inc., is proposed.

WHEREAS the Board of Trustees authorized the execution of documents necessary to carry out the establishment of the Ohio State University Affiliates, Inc., on December 5, 1986; and

WHEREAS the Ohio State University Affiliates, Inc., pursuant to Section 5.01 of the Code of Regulations has proposed an amendment to the Code of Regulations of the Ohio State University Affiliates, Inc., specifically Article I, Section 1.04 B, regarding the term of the directors, as follows:

July 9 and 10, 1987 meeting, Board of Trustees

**AMENDMENT TO THE CODE OF REGULATIONS OF
OHIO STATE UNIVERSITY AFFILIATES, INC. (contd)**

ARTICLE I

Trustees

Section 1.04. Provisions Relating to Directors.

B. Term. Each Director designated in the Articles of Incorporation shall be deemed to be elected as such as of the time of filing of the Articles of Incorporation to serve until their replacement by the permanent Board at the earlier of the commencement of full operations or June 30, 1987. Originally, three (3) Directors will be elected by the Chairman of the University Board of Trustees from its number: one shall be appointed for three years, one shall be appointed for two years, and one shall be appointed for one year. Thereafter, the three (3) Directors elected by the Chairman of the University Board of Trustees from its number shall serve for terms of three years each. Directors may be reelected. At the end of each term, a vacancy will be created until a successor is elected and qualified.

NOW THEREFORE

BE IT RESOLVED, That the aforementioned amendment to the Code of Regulations of the Ohio State University Affiliates, Inc., be approved.

Upon motion of Mr. Kessler, seconded by Ms. Casto, the Board of Trustees adopted the foregoing resolution by unanimous voice vote.

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President Jennings made the following statement:

Thank you, Mr. Chairman. The budget being presented for your approval today reflects the adjustments required by lower than expected support for higher education in the final State budget. When I presented a provisional budget to this Board one month ago, we had hoped that the final budget would support the commitment to student accessibility that was reflected in the actions of the Senate and the House to keep tuition levels as low as possible.

We are grateful to the General Assembly for its actions in reducing the student share of college costs paid by tuition from the original Executive Budget recommendations. Nonetheless, the unfortunate result of this final State budget is that Ohio's progress of prior years has been reversed. The average student share of college costs, which had been brought down to 36 percent through legislative action, will now return to more than 40 percent, compared to a national average that is still approximately one third.

Ohio State has done its share on keeping tuition as low as possible. We emphasized our commitment to accessibility by imposing no tuition increase last year. However, we are this year faced with funding levels for the Instructional Subsidy that are far too low to continue to enhance academic excellence without a significant tuition increase. Indeed, the State

July 9 and 10, 1987 meeting, Board of Trustees

President Jennings: (contd)

budget that was passed last week assumes an increase in Ohio college and university tuition levels that would cost Ohio State students about \$125 per quarter.

It is unfortunate to see the State of Ohio turn back the progress of the past biennium. But we cannot allow this University's outstanding achievements and opportunities for future progress to be reversed by this setback.

Broad access to higher education opportunities, supported by low tuition, is an invaluable asset for Ohio. We must continue to look to the Governor and the General Assembly for the adequate levels of support that are needed by its state-assisted colleges and universities to enable us to continue the pursuit of academic excellence while also ensuring broad accessibility for all qualified Ohioans.

Today, however, we must adopt a budget based on current levels of support from the State of Ohio. I am recommending that Ohio State's tuition increase be set at \$62 per quarter for Ohio undergraduates, an amount that is less than half of the increase assumed in the State budget. I also am recommending that higher levels be imposed for out-of-state students.

While these recommendations are higher than we had hoped, I do want to point out Ohio State's fine record on keeping tuition as low as possible. Our two-year average increase is still well below increases at our sister universities around the State. Even at \$630 per quarter, Ohio State's tuition is still among the lowest in Ohio. Our ranking of tenth among Ohio's thirteen state-assisted four-year institutions is, indeed, appropriate to our land-grant mission of maintaining broad accessibility to the State's major, comprehensive university.

This is a credit to the University-wide efforts of our staff and faculty members to minimize the on-going costs of current activities. Cost containment continues to assist our efforts to keep student tuition down while maintaining our capacity to respond to new opportunities for enhancing academic excellence.

I now want to call upon Vice President Ihrig to present the details of the budget being recommended for your approval today.

Mr. Ihrig:

Thank you. The Current Funds Budget for 1987-88 which we are presenting for your consideration totals \$938,450,000 in revenues to support planned commitments of \$934,180,000. This represents an increase of 4.7 percent over total revenues for the fiscal year just ended, 1986-87.

Included in this budget are General Funds totaling \$417.6 million, or 44.5 percent of total resources. These funds are used to fund the basic instructional, administrative and related support activities of this University. Earnings Operations revenues total \$308.3 million, or 32.8 percent of

July 9 and 10, 1987 meeting, Board of Trustees

Mr. Ihrig: (contd)

budgeted resources, which include everything from University Hospitals and student dormitories, to copying services and conferences in support of the academic mission of Ohio State. Earnings Operations not only earn the revenues they spend, they also pay their fair share of University overhead and facilities costs associated with their activities. Finally, restricted revenues which total \$212.5 million, 22.6 percent of total revenues, are received and expended for specific purposes specified by external entities such as Federal and private sponsored research.

The largest components of General Fund revenues are State appropriations and student tuitions. Both of these revenue sources are directly impacted by student enrollments, which is why the long and short-term enrollment planning we do is so important for all the campuses. The budget is based upon the student enrollment targets for the Autumn Quarter, 1987, which have been reviewed previously with this Board and included in the budget materials. These targets show continued growth on the Regional Campuses, but bringing the Columbus Campus closer to the 40,000 FTE enrollment limit. Our projections indicated a Columbus Campus non-exempt FTE of 40,362 for the Autumn Quarter, 1987, which would reduce the over-enrollment by one-half from the 40,749 FTE of Autumn 1986.

The instructional subsidies from State appropriations on the Columbus Campus increase by only 4.1 percent over 1986-87, while those on the Regional Campuses increase by 17 percent. The basic reasons for this wide differential include emphasis by the State in funding the student enrollment increases which were not fully funded last biennium due to lack of funds and enhancements to the two-year subsidy models, which both benefited our Regional Campuses. While scheduled to receive these funds, assuming their enrollment increases are maintained, these campuses did have to support part of last year's enrollment increases without full State support.

The Columbus Campus share of the State instructional subsidy pool continues to decrease, a consistent trend over the past decade. For example, the current State budget has Ohio State Columbus receiving 22.1 percent of the total instructional subsidy versus 22.36 percent last year. And this share is scheduled to drop another tenth of a point next year.

The State support continues for the various excellence programs. Of special importance are the \$2.47 million for Academic Challenge, and the \$4.98 million for the Research Challenge for 1987-88, which is \$2.5 million under last year's \$7.48 million. The increases for Cooperative Extension and OARDC are only 2 percent for 1987-88, while no increased funding was provided for the Clinical Teaching subsidies in the hospitals as well as the Dental and Veterinary Medicine Clinics.

However, the State has provided \$3.0 million in 1987-88 for the Ohio Supercomputer Center with another \$4.5 million allocated for next year, 1988-89.

July 9 and 10, 1987 meeting, Board of Trustees

Mr. Ihrig: (contd)

This budget reluctantly includes tuition recommendations which increase tuitions to \$630 for Ohio students attending the Columbus Campus, to \$604 for Ohio students attending a Regional Campus and to \$1660 for the non-resident undergraduate students. With Ohio State's zero increase in tuitions last year, the rate of increase over the period 1985-86 to present remains the lowest of Ohio's colleges and universities. This will keep us as the 10th lowest in Ohio. Even so, this change in our demonstrated trend to bring students tuition costs down has been disrupted due to the level of State support for this year.

Even with these relatively high tuition increases, the market basket cost increases for Ohio State students totals 7.1 percent when considering the impact of price changes in dormitory, bookstore, parking and health insurance as well as athletic event tickets charges. The University-wide average rate increases total 4.3 percent, especially since University Hospitals will not increase their rates for 1987-88.

A significant component of this 1987-88 budget is the \$12.0 million targeted from reduced costs of operations as a result of the new cost containment program begun in 1987. This program of achieving targeted cost reductions without reducing the quality of services and recognizing the faculty and staff through a bonus program is new in higher education. As in any new venture, a learning curve exists; however, the support and efforts to-date throughout the University have been excellent. While the final results won't be known until late in this calendar year, we are anticipating that the results of this cost containment program will exceed our expectations.

The budgeted expenditures in the 1987-88 Budget* are in accordance with the budget planning guidelines presented to this Board by President Jennings at your May 1987 meeting.

We are presenting this balanced 1987-88 Current Funds Budget totaling \$938,450,000 for your consideration and recommend its approval.

I would be happy to respond to any questions. Thank you.

Mr. Barone:

I think the important thing is that rather than having a percentage like most of the universities that start with 14, then go down to 12 percent, then to single digit. I know the University and the State are in a single digit tuition, but I think putting it in the dollar sense is very advantageous. It's \$630, which is a lot less than most of the universities, especially those universities located in the northern part of Ohio. Any questions?

Mr. Redman:

I want to make a comment, if I may. I think two important

July 9 and 10, 1987 meeting, Board of Trustees

Mr. Redman: (contd)

things, one is the size of the budget -- it always scares me. You did mention \$938 million, but I see by your statement it's \$934 million. We will not argue about the \$4 million.

Mr. Ihrig:

The \$938 million are the projected revenues.

Mr. Redman:

The other thing is that the budget is balanced between income and expense, so, assuming that your projection is correct, we come out even.

Mr. Ihrig:

Yes.

Mr. Redman:

That is all I had to say.

Mr. Barone:

Any other questions?

1987-88 CURRENT FUNDS BUDGET

Resolution No. 88-15

Synopsis: The budget for 1987-88 is being submitted for adoption.

WHEREAS the levels of State support have been established with the enactment of budget legislation for the 1987-89 biennium; and

WHEREAS appropriate planning and consultation within the University has been accomplished; and

WHEREAS this Board approved a provisional budget for 1987-88 at its June meeting; and

WHEREAS the President is now prepared to present the final 1987-88 budget:

NOW THEREFORE

BE IT RESOLVED, That the University Current Funds Budget for Fiscal Year 1987-88, as described in the accompanying text and tables, be approved, with authorization for the President to make expenditures within the projected income levels; and

BE IT FURTHER RESOLVED, That student fees be increased for all Ohio residents beginning Autumn Quarter 1987, as specified in the Schedule of Student Fees incorporated in this resolution effective Autumn Quarter 1987; and

July 9 and 10, 1987 meeting, Board of Trustees

1987-88 CURRENT FUNDS BUDGET

BE IT FURTHER RESOLVED, That the Secretary be instructed to incorporate all supporting documents into the minutes of this meeting, including faculty tenure approvals, salary rolls with promotions, and fees and charges for the Fiscal Year 1987-88, and to file these materials with the official records of this University.

Mr. Redman made the following statement:

The Personnel Committee of this Board met on July 9, 1987, and this report is a result of that meeting.

As in the past, the President's performance at this institution is evaluated throughout the year by many people, but it is formally evaluated once a year by the Board of Trustees. On this occasion it is noted that President Jennings will begin his seventh year with Ohio State on September 1, having developed a consistently constructive record over the past six years. We appreciate President Jennings's vision and leadership effort on behalf of the University. It should also be noted that the shared spirit of cooperation between this Board and the President is not only pleasant but it also is indeed essential to the continuing vitality of The Ohio State University.

With these things in mind, the Board has determined to raise President Jennings's salary to \$129,000 for the 1987-88 academic year. This increase was calculated keeping in mind the context of salaries of presidents of other comparable educational institutions, in addition to the performance appraisal mentioned earlier. The Secretary of the Board is directed to develop the relevant documents to effectuate this change.

May I now have a motion to approve the President's budget report and recommendation, as well as the Board Personnel Committee's proposal relative to President Jennings's salary for the coming year.

Upon motion of Mr. Kessler, seconded by Ms. Casto, the Board of Trustees adopted the foregoing resolution by unanimous roll call vote.

1987-88 CURRENT FUNDS BUDGET THE OHIO STATE UNIVERSITY

I. INTRODUCTION

In June 1987, this Board approved a Provisional Budget to enable the University to initiate operations for the 1987-88 Fiscal Year. The Provisional Budget was developed in accordance with the budget planning guidelines reviewed with the members of this Board at its May 1987 meeting. Now that the Ohio General Assembly has passed budget legislation for the 1987-89 Biennium and the Governor has signed this legislation, the University 1987-88 Current Funds Budget can now be recommended to the Board of Trustees.

Last fiscal year, Ohio State's budget included a zero increase in student tuition, which was made possible by State funding levels that reduced the state-wide student share for undergraduates from 40 to 36 percent over

July 9 and 10, 1987 meeting, Board of Trustees

**1987-88 CURRENT FUNDS BUDGET
THE OHIO STATE UNIVERSITY (contd)**

the 1985-87 Biennium. This year, however, that improvement has been reversed. The state-wide student share is now set to increase from its current 36 percent to 41 percent over the 1987-89 Biennium.

While the level of State support for higher education is not adequate to maintain the positive initiatives begun during the past biennium, the actions of the Ohio General Assembly did do much to reduce the student tuition recommendations from the 31 percent increase included in the Executive Budget Proposal. But it is through internal cost savings that Ohio State has been able to provide the majority of the resources needed to bring the tuition increases for Ohio residents down to 10.9 percent. While a double-digit increase in tuition is extremely undesirable with the current economic situation, the final level of State instructional subsidies precluded Ohio State from achieving our previously stated goal of 7.9 percent.

As a part of its continuing efforts to reduce costs, the University initiated an internal cost containment program in 1987 with the target of reducing annual costs University-wide by \$12 million. These monies were then to be targeted to support new programs and fund priority needs throughout the University. Now, however, these savings will be utilized to maintain tuition increases for Ohio residents at the 10.9 percent budget recommendation.

The faculty and staff members throughout the University work to enable Ohio State to maintain student accessibility by continuing to provide quality instruction, research and support services at lower costs. To recognize the efforts, the University's cost containment program incorporates direct cash incentives to each qualified regular faculty and staff member. The bonus amount will be determined by the success of their respective units and the University in achieving cost containment targets. In addition to reducing costs, Ohio State's faculty and staff are providing a margin of excellence to this University by contributing more than \$12 million to the University's capital fund raising campaign. These actions by members of the faculty and staff clearly demonstrate their commitment to excellence and student accessibility.

II. SOURCES OF FUNDS

The Current Funds Budget proposed for 1987-88 totals \$938,450,000 from several funding sources, as detailed in the Sources of Income schedule. This amount includes State support totaling \$304,170,000 which represents 32.4 percent of the total resources budgeted. Of the total sources of funds, general funds represent 44.5 percent, earnings operations provide 32.9 percent, and restricted funds total 22.6 percent.

As a result of the level of State support and allowing for the University's efforts at reducing costs, student tuition at The Ohio State University is being increased by 10.9 percent for Ohio residents attending the Columbus campus and 9.6 percent for Ohio residents attending Lima, Mansfield, Marion, Newark, or the Agricultural Technical Institute campuses. This lower rate of increase at the regional campuses results from enhanced instructional subsidies provided for the lower division undergraduate and technical categories.

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**1987-88 CURRENT FUNDS BUDGET
THE OHIO STATE UNIVERSITY (contd)**

The tuition charged non-resident students is typically three times that of residents. After a review of non-resident tuitions, it was determined that those amounts for undergraduate, graduate, and law students had fallen behind this ratio. Therefore, selective increases of up to 14 percent are being recommended for the non-resident surcharge.

The recommended tuition rates for residents and non-residents are shown in the Student Fee Schedule. The rate of tuition increases for 1987-88 reverses the trend of the past two years of keeping these increases below inflation, and sets back our progress in reducing the students' share of the cost of their education. While Ohio State continues to keep tuition below the Board of Regents projections, significant improvements in State support will be needed in future biennia if Ohio is to return the students' share of their cost of higher education to the 33 percent level.

A major funding source for the University continues to be revenues from the sales of the earnings units. Continuing efforts to control increases in all fees and charges of the University, the average University-wide increase in all University charges will be approximately 4.3 percent. University Hospitals continue to emphasize containment of health care costs by holding hospital rate increases to zero for 1987-88. The Residence and Dining Halls will do their part to assist student accessibility by keeping their average rate increases to only 5.0 percent.

The 1987-88 budget includes new State funding of \$3.0 million that is being provided to support the Ohio Supercomputer Center which is now being placed into operation. In addition, Ohio State is committing direct support of \$2.0 million and the Center will be working to add private funding to further support the supercomputer activity.

Of special note are the increases in State support for the regional campuses and the Agricultural Technical Institute. These increases, which average just under 12 percent, result from changes in the institutional subsidy model plus State resources added to fully fund actual and expected growth in enrollments.

The other income components of the 1987-88 Current Funds Budget are in line with expected growth from 1986-87 revenues. The projected revenues for 1987-88 show an increase of \$42,550,000, which is some 4.7 percent above the estimated revenues for 1986-87. This is the result of normal expected increases in nearly all categories of revenue except State appropriations and student tuition.

III. USES OF FUNDS

As detailed in the Schedule of Budgeted Uses for Fiscal Year 1987-88, and the supporting documents, this University's recommended Current Funds expenditures total \$934,180,000. These planned expenditures will support the following budget planning guidelines.

- * Increase faculty, administrative/professional, and classified staff salaries by two percent and provide three percent in salary funds for merit increases plus \$3,000,000 for equity and excellence adjustments.

July 9 and 10, 1987 meeting, Board of Trustees

**1987-88 CURRENT FUNDS BUDGET
THE OHIO STATE UNIVERSITY (contd)**

- * Fund salary increases for negotiated wage settlements.
- * Provide funding to maintain the purchasing power of University-funded student financial aid, plus \$5,500,000 to address critical needs that include providing adequate instructional staffs, supporting continued efforts to enhance excellence and quality, and assisting implementation of program changes. In addition, the State has provided \$2.47 million in Academic Challenge funds to be distributed to further enhance nationally recognized academic programs at Ohio State, and \$4.98 million in Research Challenge resources.
- * Provide resources to meet mandatory General Fund cost increases, such as utilities and employee benefits.

One-time funds totaling \$4.5 million will be provided for equipment, facilities renovation, and the acquisition of library materials to continue to improve the quality of these fundamental support resources.

This balanced budget for 1987-88 is being presented for Board of Trustees approval.

July 9 and 10, 1987 meeting, Board of Trustees

THE OHIO STATE UNIVERSITY
1987-88 CURRENT FUNDS BUDGET

Sources of Income
(In Millions)

	1986-87 Budget June 11, 1986	1986-87 Revised Estimate	1987-88 Proposed Budget
Central Campus			
State Appropriations	\$266.42	\$269.39	\$273.27
Student Fees	122.60	122.04	133.91
Other Income			
Federal Appropriations & Grants	89.10	88.26	92.00
Ohio Grants & Contracts	8.27	9.01	9.33
Local Grants & Contracts	11.79	11.51	11.88
Private Gifts & Grants	45.27	42.72	46.21
Endowment Income	7.31	7.80	8.30
Departmental Sales & Services	23.29	26.21	27.24
Auxiliary Sales & Charges	71.44	72.16	76.72
Hospital Sales & Services	176.89	182.47	192.91
Other Sources	14.24	15.00	14.22
Total Other Income	\$447.60	\$455.14	\$478.81
— Total Central Campus	\$836.62	\$846.57	\$885.99
Regional Campuses			
State Appropriations	9.87	10.23	11.75
Student Fees	6.57	6.95	7.66
Other Income	3.00	3.13	3.25
Total Regional Campuses	\$19.44	\$20.31	\$22.66
OARDC			
State Appropriations	18.78	18.78	19.15
Federal Appropriations	6.06	6.38	6.55
Other Income	4.24	3.86	4.10
Total OARDC	\$29.08	\$29.02	\$29.80
Total University			
State Appropriations	295.07	298.40	304.17
Student Fees	129.17	128.99	141.57
Other Income	460.90	468.51	492.71
Total Resources	\$885.14	\$895.90	\$938.45

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THE OHIO STATE UNIVERSITY
1987-88 CURRENT FUNDS BUDGET

Budgeted Uses
(In Millions)

	1986-87 Budget June 11, 1986	1986-87 Revised Estimate	1987-88 Proposed Budget
Central Campus			
Educational & General	\$565.57	\$567.37	\$592.66
Auxiliary Enterprises			
Residence & Dining Halls	28.33	28.33	28.95
Intercollegiate Athletics	16.45	16.45	18.78
Other Auxiliaries	25.47	25.47	24.90
Total Auxiliaries	\$70.25	\$70.25	\$72.63
University Hospitals	187.65	191.75	201.67
Total Central Campus	\$823.47	\$829.37	\$866.96
Transfers	13.13	13.13	15.34
Grand Total Central Campus	\$836.60	\$842.50	\$882.30
Regional Campuses			
Agricultural Technical Inst.	5.02	5.08	5.66
Lima Campus	4.13	4.30	4.67
Mansfield Campus	3.74	4.00	4.28
Marion Campus	2.93	3.26	3.51
Newark Campus	3.54	3.67	3.96
Total Regional Campuses	\$19.36	\$20.31	\$22.08
OARDC	29.08	29.02	29.80
Total All Campuses	\$885.04	\$891.83	\$934.18

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THE OHIO STATE UNIVERSITY
1987-88 CURRENT FUNDS BUDGET

Student Fee Schedule (Fees Per Quarter)

College or School	Credit Hours Enrollment	Instruct. Fees	General Fees	Resident Total	Non- Resident Tuition	Non- Resident Total
Undergraduate Colleges						
Agriculture & Home Economics						
Allied Medical Prof.						
Architecture						
The Arts						
Biological Sciences						
Business						
Continuing Education						
Dental Hygiene						
Education	0	43	8	51	43	94
Engineering	1	85	15	100	86	186
Health, Phys. Educ., & Rec.	2	106	23	129	172	301
Humanities	3	127	31	158	258	416
Journalism	4	169	41	210	343	553
Mathematics & Physical Sci.	5	212	51	263	429	692
Music	6	254	61	315	515	830
Natural Resources	7	296	71	367	601	968
Nursing	8	339	81	420	687	1,107
Pharmacy	9	381	92	473	773	1,246
Social & Behavioral Sciences	10	423	102	525	858	1,383
Social Work	11	466	112	578	944	1,522
University College	12+	508	122	630	1,030	1,660
Graduate School						
	0	44	8	52	60	112
	1	88	15	103	120	223
	2	141	24	165	239	404
	3	212	37	249	359	608
	4	282	49	331	479	810
	5	353	61	414	599	1,013
	6	423	73	496	718	1,214
	7	494	85	579	838	1,417
	8	564	98	662	958	1,620
	9	635	110	745	1,077	1,822
	10+	705	122	827	1,197	2,024

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THE OHIO STATE UNIVERSITY
1987-88 CURRENT FUNDS BUDGET

Student Fee Schedule

College or School	Credit Hours Enrollment	Instruct. Fees	General Fees	Resident Total	Non- Resident Tuition	Non- Resident Total
Graduate Professional						
Law	0	78	12	90	120	210
(Fees Per Semester)	1	156	23	179	240	419
	2	250	37	287	385	672
	3	374	55	429	577	1,006
	4	499	73	572	769	1,341
	5	624	92	716	962	1,678
	6	749	110	859	1,154	2,013
	7	874	128	1,002	1,346	2,348
	8	998	146	1,144	1,538	2,682
	9	1,123	165	1,288	1,731	3,019
	10+	1,248	183	1,431	1,923	3,354
Pharmacy, Doctor of						
(Fees Per Quarter)	0	52	8	60	80	140
	1	104	15	119	160	279
	2	156	24	190	256	446
	3	249	37	286	385	671
	4	332	49	381	513	894
	5	416	61	477	641	1,118
	6	499	73	572	769	1,341
	7	582	85	667	897	1,564
	8	665	98	763	1,026	1,789
	9	748	110	858	1,154	2,012
	10+	831	122	953	1,282	2,235

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THE OHIO STATE UNIVERSITY
1987-88 CURRENT FUNDS BUDGET

Student Fee Schedule

College or School	Credit Hours Enrollment	Instruct. Fees	General Fees	Resident Total	Non- Resident Tuition	Non- Resident Total
Graduate Professional						
Medicine	0	93	8	101	181	282
(Fees Per Quarter)	1	185	15	200	362	562
	2	295	24	319	578	897
	3	443	37	480	868	1,348
	4	591	49	640	1,157	1,797
	5	739	61	800	1,446	2,246
	6	886	73	959	1,735	2,694
	7	1,034	85	1,119	2,024	3,143
	8	1,182	98	1,280	2,314	3,594
	9	1,329	110	1,439	2,603	4,042
	10+	1,477	122	1,599	2,892	4,491
Dentistry	0	76	8	84	164	248
Optometry	1	151	15	166	328	494
Veterinary Medicine	2	242	24	266	525	791
(Fees Per Quarter)	3	363	37	400	788	1,188
	4	484	49	533	1,050	1,583
	5	606	61	667	1,313	1,980
	6	727	73	800	1,576	2,376
	7	848	85	933	1,838	2,771
	8	969	98	1,067	2,101	3,168
	9	1,090	110	1,200	2,363	3,563
	10+	1,211	122	1,333	2,626	3,959

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THE OHIO STATE UNIVERSITY
1987-88 CURRENT FUNDS BUDGET

Student Fee Schedule (Fees Per Quarter)

College or School	Credit Hours Enrollment	Instruct. Fees	General Fees	Resident Total	Non- Resident Tuition	Non- Resident Total
Regional Campuses						
Undergraduate	0	43	6	49	43	92
	1	85	12	97	86	183
	2	106	18	124	172	296
	3	127	24	151	258	409
	4	169	32	201	343	544
	5	212	40	252	429	681
	6	254	48	302	515	817
	7	296	56	352	601	953
	8	339	64	403	687	1,090
	9	381	72	453	773	1,226
	10	423	80	503	858	1,361
	11	466	88	554	944	1,498
	12+	508	96	604	1,030	1,634
Graduate	0	44	6	50	60	110
	1	88	12	100	120	220
	2	141	19	160	239	399
	3	212	29	241	359	600
	4	282	38	320	479	799
	5	353	48	401	599	1,000
	6	423	58	481	718	1,199
	7	494	67	561	838	1,399
	8	564	77	641	958	1,599
	9	635	86	721	1,077	1,798
	10+	705	96	801	1,197	1,998

UBP/July 10, 1987

July 9 and 10, 1987 meeting, Board of Trustees

July 9 and 10, 1987 meeting, Board of Trustees

REPORT - UNIVERSITY'S INVESTMENT PORTFOLIO

Resolution No. 88-16

RESOLVED, That the report on the University's Investment Portfolio, dated June 19, 1987, as submitted to the Fiscal Affairs Committee of the Board of Trustees, be received and filed with the official records of the Board.

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Thereupon the Board adjourned to meet Thursday, September 3, 1987, at The Ohio State University Fawcett Center for Tomorrow, Columbus, Ohio, at 6:30 p.m.

Attest:

Madison H. Scott
Secretary

Edmund C. Redman
Chairman

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APPENDIX I

Degrees Conferred at

THE OHIO STATE UNIVERSITY
COMMENCEMENT CONVOCATION

September 3, 1987

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Commencement Speaker

Marilyn Robinson Waldman

Marilyn Robinson Waldman is a professor of history and director of the Center for Comparative Studies in the Humanities. A nationally known expert in Islamic and Middle East history, she earned her bachelor's degree in 1963 from Radcliffe, where she was inducted into Phi Beta Kappa. She received both her graduate degrees in Islamic history from the University of Chicago: a master's degree with honors in 1966 and a doctoral degree with distinction in 1974.

She began her career at Ohio State in 1971 as an instructor in history. In 1974 she was promoted to assistant professor and in 1978 to associate professor. Her tenure at Ohio State also includes three years as director of the Near and Middle East Studies Program and three years as chairperson of the Division of Comparative Studies in the Humanities.

Her contributions to Ohio State and to her field of study have been immense. Within the University she has served on more than 40 committees, including the Phi Beta Kappa standards committee, the Colleges of the Arts and Sciences Personalized Study Program Review Committee, and the University-Industry Relations Committee. She was also instrumental in the design and establishment of the Religious Studies Program, which she has headed since its inception in January 1983. Also in 1983, she co-chaired the Third Annual Symposium in the Humanities, which dealt with religion in the modern world.

Among her 45 published works are four books and 24 scholarly articles, and she has produced several translations and textbooks. Since arriving at Ohio State, she has made more than 250 public presentations in eight states to a variety of organizations. She is on the executive board of the American Society for the Study of Religion and is the recipient of numerous honors and awards, including election to the American Society for the Study of Religion and awards that funded her post-doctoral study in Iran.

Distinguished Service Awards

John F. Havens

After graduating from Ohio State with a Bachelor of Science degree in 1949, John F. Havens went on to build an enviable career as a banker, real estate developer, and broker. His rise in financial circles culminated in his being named chairman of the board and chief executive officer of Banc One Corporation, a position he held from 1980 to 1986. Numerous civic citations complement several professional awards, and he serves on the boards of a variety of institutions, among them the W.W. Williams Company, Advanced Drainage Systems Inc., and Cardinal Distributions Inc., all of the Columbus area.

Havens' involvement with Ohio State did not end with his commencement in 1949; since that time, he has continued to support the University and provide leadership in many arenas. He recently completed a nine-year term on Ohio State's Board of Trustees, serving as chairman during 1985-86; is a past chairman of the Board of Directors of the Development Fund; and is currently a member of the National Campaign Committee of The Ohio State University Campaign.

He was instrumental in Bank One of Columbus' decision to commit \$1 million for the Bank One Chair of Excellence at Ohio State. Recently, Havens made a substantial gift of real estate that will benefit the College of Agriculture. Ohio State is proud to present him with the Distinguished Service Award as an expression of the University's sincere appreciation.

William Poland

At the time of his death in March 1987, William Poland was professor emeritus of music and had served for many years as associate dean of the Graduate School. He came to Ohio State in 1949 as an instructor and was, subsequently, the first student to earn a doctoral degree in music from the University and one of the founders of the Columbus Symphony Orchestra.

As a scholar in music theory, he made significant contributions in the areas of musical behavior and analysis, and two of his books have become classics in the field. Keenly interested in experimental activities in the arts, he founded what was called the Center for Experimental Research in the Arts from 1965 to 1986. Current scholars consider him a pioneer in integrating musical theory into today's high-technology computer era. He was honored in 1971 with Ohio State's prestigious Alumni Award for Distinguished Teaching.

In 1975, when he took on additional responsibilities as associate dean, he created a program review system for the University that has become a national model for other institutions. His lasting contributions to the University also include his acquisition of the Cazden Collection—an archive of papers, compositions and other materials of Norman Cazden, an important music theorist, composer, and performer.

Distinguished Service Awards

Maybelle L. Ruppert

For nearly a quarter of a century, Maybelle Ruppert has served as executive secretary to the president of The Ohio State University. Former President Novice G. Fawcett recruited her to the University in 1964 from her position as executive secretary to the governor of West Virginia; since then, her career at Ohio State has spanned the tenure of three presidents.

She is known throughout the university for her uncommon competence and for her loyalty to and love of Ohio State. Her 23 years of service have crossed over both good and bad times in higher education, but, as noted by the three presidents whom she has served, her commitment has been unwavering.

Her position has been one of low visibility in a high-visibility office. While she herself has not been in the spotlight, her talent has contributed a great deal to the overall strength of the Office of the President.

She has earned the respect of the faculty, the administration, and the sector of the business community with which the University deals. She has adeptly handled the public relations component of her position. As the president's secretary, she dealt with individuals at all levels, and was unfailingly courteous to all guests, ranging from students to foreign dignitaries. The University proudly confers this award to her for her long-standing devotion and superior service.

Seward D. Schooler

Seward Schooler is a former director of Banc One Corporation and serves as chairman of the executive committee and honorary director of Banc One of Coshocton. Throughout his banking career he also has served as director of the Federal Reserve Bank of Cleveland, as president of the Ohio Bankers Association, and as president of the National Bank Division of the American Bankers Association. He is also a trustee of several educational institutions and president of the Coshocton County Industrial Development Corporation.

For more than 20 years, he has been a generous supporter of Ohio State. Among his major contributions is his co-sponsorship of the Schooler-Reese Lecture Series, through which two former presidents of the United States and other distinguished world leaders have visited the University to give public lectures and meet informally with students and faculty.

He has promoted the University's academic excellence by supporting the National Merit Scholar Program, the Reese Chair in Banking, and several projects in the College of Medicine. A member of The Presidents Club and The Presidents Council, he served on the Executive Committee of The Presidents Club for six years and is at present a member of the National Campaign Committee for The Ohio State University Campaign. The University is proud to recognize him with this award.

Distinguished Service Awards

Faye S. Smith

Since graduating in 1939 with a bachelor's degree in business education from Ohio State, Faye S. Smith has pursued excellence in education in many arenas. A high school teacher for 14 years, she returned to the University for her master's degree. In 1953 she accepted a position as assistant professor at Otterbein College. She returned to Ohio State again in 1960—this time in an administrative role as assistant to the secretary of the Board of Trustees, a position from which she retired in 1984.

For 24 years, she was the key administrative official in the Office of the Board of Trustees. She coordinated and prepared agenda materials for board meetings, recorded official proceedings of those meetings, updated and published appropriate bylaws and rules, and conducted other day-to-day activities for the board.

During her tenure at Ohio State, Smith served three board secretaries under the administration of three University presidents. She had a thorough knowledge of Ohio State's history and could lend important perspective to a variety of problems. Her involvement with the University did not stop at the office door: as a member of The Presidents Club and the Alumni Association, she was and continues to be involved personally as well. The University is pleased to present her with this award for her professional and personal contributions.

Marion L. Smith

Marion L. Smith, former associate dean of the College of Engineering, has participated in an unusually broad range of activities throughout his 37 years at The Ohio State University. He began his teaching career at the University in 1947 as a graduate student. For 11 years he was a leading faculty member in the mechanical engineering department. During this period in his career, he compiled an impressive record in teaching and in scholarship.

He subsequently spent 26 years as associate dean. Among his greatest contributions has been his achievement in developing solid relationships between students and faculty and in enhancing morale throughout the college. A by-product of this relationship has been the firm ties between the college and its alumni long after commencement day. His special abilities have also been recognized by other universities: he has received invitations to candidacy for chairmanships and deanships from a dozen recognized universities. He has, however, chosen to stay at Ohio State out of love for and loyalty to his alma mater.

As associate dean, he has assumed a leadership role in promoting the college—as well as the University—in academic circles nationwide. The link between the College of Engineering and industry has also been strengthened as a result of his efforts. He was instrumental in establishing the Society of Women Engineers as a support organization at a time when few females ventured into the engineering curriculum. His lengthy list of professional awards indicate the scope of his achievement and are a testament to his talent as a scholar, professor, and administrator. Ohio State welcomes the opportunity to honor him for his distinguished and productive career.

The Graduate School

Dean: Roy A. Koenigsnecht

Doctor of Musical Arts

Tzong-Kai Kuo, Taiwan, R.O.C.; B.S. (Chong Yuan University); M.A. (Eastern Illinois University); *Music*
Dr. Gordon J. Wilson

Patricia A. Wood, Columbus; B.Mus., M.Mus.; *Music*
Dr. Gordon Wilson

Doctor of Philosophy

Hassan Farouk Ahmed, Egypt; B.S. (Cairo University); M.S.; *Agricultural Economics and Rural Sociology*
Dr. Norman Rask

Mickey Francis Arthur, Grove City; B.S., M.S.; *Microbiology*
Dr. James I. Frea

April Marie Atwood, Seattle, WA; B.S.Bus.Adm., M.A.; *Business Administration*
Dr. Robert Burnkrant

Grady King Baccus, Dayton; B.A. (University of Western Ontario); M.A. (Bowling Green State University); *Psychology*
Dr. Thomas Milburn

Sebronette Barnes, Foxworth, MS; B.M.E. (Jackson State University); M.M. (Miami University); M.A.; *Music*
Dr. Jere Forsythe

Jeffrey A. Bauer, Lorain; B.S. (Bowling Green State University); M.S.; *Geology and Mineralogy*
Dr. Walter A. Sweet

Richard Michael Bauer, Kent; B.A. (Hiram College); M.S. (University of Akron); *Veterinary Pathobiology*
Dr. Richard G. Olsen

Gregory Scott Becker, Pottersville, NY; B.S. Biology (State University of New York); *Molecular, Cellular, and Developmental Biology*
Dr. John N. Reeve

Bart J. Beverly, Columbus; B.S.; *Pharmacology*
Dr. Daniel Couri

Vincent Alan Billock, Canfield; B.S., M.S. (Miami University); *Biophysics*
Dr. Carl R. Ingling, Jr.

Judith Ann Braithwaite, Worthington; B.S.Ed., M.A.; *Education*
Dr. Sandra McCormick

Anne Elizabeth Browning, Portsmouth; B.S.Met.E., M.S.; *Metallurgical Engineering*
Dr. Robert H. Wagoner

Joe Leonard Bruner, Tulsa, OK; B.S., M.S. (Oklahoma State University); *Botany*
Dr. Daniel J. Crawford

Brian Edward Burke, Watertown, MA; B.S. (University of Tampa); M.S.; *Microbiology*
Dr. Robert M. Pfister

Linda Florence Callahan, Huntsville, AL; B.A. (The University of North Carolina); M.A.; *Communication*
Dr. James L. Golden

Diane C. Cantrell, Columbus; B.S.Ed., M.S.; *Education*
Dr. Gail McCutcheon

Yue Cao, Beijing, P.R.C.; B.S. (Peking University); M.S.; *Physics*
Dr. James R. Gaines

Rene Carpentier, Winnipeg, Manitoba, Canada; B.F.A., B.Ed. (University of Manitoba); M.A. (Nova Scotia College of Art and Design); *Art Education*
Dr. Kenneth A. Marantz

Eva T. Chen, Taipei, Taiwan, R.O.C.; B.S. (National Chengchi University); M.Law (National Taiwan University); M.A.; *Business Administration*
Dr. H. Huston McCulloch

Ling Chen, Taiwan, R.O.C.; B.S. (National Tsing Hua University); *Chemistry*
Dr. Alan G. Marshall

Yoen-Seung Chung, South Korea; B.A. (Sogang University); *Economics*
Dr. Hajime Miyazaki

Robert J. Cirino, Cleveland; B.A. (John Carroll University); M.A.; *Education*
Dr. Judy Genshaft

Thomas Anthony Claerr, Clawson, MI; B.A. (University of Detroit); M.A. (Central Michigan University); M.A. (Michigan State University); *Education*
Dr. Edward D. Allen

Burton David Clark, Lunenburg, MA; B.S. (University of Massachusetts); *Microbiology*
Dr. Donald H. Dean

Debra Jo Cohen, Cranston, RI; B.S.C. (Ohio University); M.L.H.R.; *Labor and Human Resources*
Dr. Janina C. Latack

Mary Elizabeth Cohen, Memphis, TN; B.A. (The University of Tennessee); M.A.; *Philosophy*
Dr. George Schumm, Dr. Robert Kraut

Heather Miller Conrad, London; B.S. (Baylor University); *Genetics*
Dr. Philip S. Perlman

Jeffrey Warren Cornett, Columbus; B.S.Ed. (Bowling Green State University); M.A.Ed. (University of Toledo); *Education*
Dr. Gail McCutcheon

Stephen Andrew Cota, Columbus; B.S.; *Astronomy*
Dr. Gary J. Ferland

Stephen Charles Coulon, Lynbrook, NY; B.S. (Slippery Rock State College); M.A.; *Health, Physical Education and Recreation*
Dr. Daryl Siedentop

Barbara Jean Crowe, Columbus; B.S., M.S. (Purdue University); *Speech and Hearing Science*
Dr. Edward J. Hardick

Genevieve McMackin Cubie, Mt. Vernon; A.B. (Trevecca Nazarene College); M.Div. (Nazarene Theological Seminary); M.A. (Northeastern University); *English*
Dr. Christian Zacher

Milfred Douglas Dale, St. Joseph, MO; B.A. (Westminster College); M.A.; *Psychology*
Dr. Charles Wenar

Karen Ortlip Daugherty, Columbus; B.A. (Houghton College); B.S. (Columbia University); M.S., M.A.; *Sociology*
Dr. Alfred C. Clarke

Francine Davis, Poughkeepsie, NY; B.S. (Union College); M.A.; *Psychology*
Dr. W. Bruce Walsh

George Constadinos Dedes, Prodronos, Thebes, Greece; B.S. (Technical University); M.S.; *Geodetic Science and Surveying*
Dr. I. I. Mueller

Keith George Diem, Stratford, NJ; B.S., M.S. (Purdue University); *Agricultural Education*
Dr. Larry E. Miller

Haldun Direskeneli, Istanbul, Turkey; B.S. (Middle East Technical University); M.S.; *Electrical Engineering*
Dr. Thomas A. Seliga

Eileen Theresa Dugan, Houston, TX; B.A. (Texas Tech University); M.A.; *History*
Dr. James M. Kittelson

Jason Randall Dura, Kokomo, IN; B.A. (Ball State University); M.A.; *Psychology*
Dr. Steven Beck

James Lee Edwards, Columbus; B.A. (Anderson College); M.Div. (Anderson School of Theology); *Education*
Dr. Donald P. Sanders

Eitan Eldar, Columbus; B.A. (Tel Aviv University); M.A. (Adelphi University); *Health, Physical Education and Recreation*
Dr. Daryl Siedentop

Kathleen Stevens Farber, Cleveland; B.S.Ed., M.A.; *Education*
Dr. John Belland

Steven Feldgaier, Montreal, Quebec, Canada; B.A. (McGill University); M.A.; *Psychology*
Dr. F. C. Serafica

Barbara Ann Fink, Columbus; B.S., O.D. (Indiana University); M.S.; *Physiological Optics*
Dr. Richard M. Hill

Marianne Fisher-Giorlando, Ruston, LA; B.A. (Wright State University); M.A.; *Sociology*
Dr. Simon Dinitz

Christine Heather Fondse, Saskatchewan, Canada; B.Ed., M.Ed., B.A. (University of Saskatchewan); *Education*
Dr. Charlotte Huck

David Jay Frost, Wooster; B.S. (Pennsylvania State University); M.S.; *Horticulture*
Dr. Dale W. Kretchman

Mary G. Gagen, Southold, NY; B.S.L.H.R.; *Labor and Human Resources*
Dr. Stephen M. Hills

Steven Brian Garasky, Youngstown; B.A. (Wittenberg University); M.A.; *Economics*
Dr. Donald Haurin

John Francis Gardner, Cleveland; B.M.E. (Cleveland State University); M.S.; *Mechanical Engineering*
Dr. Kenneth Waldron,
Dr. Krishnaswamy Srinivasan

Fariborz Ghooorkhanian, Iran; B.S. (Pahlavi University); M.S. (Youngstown State University); *Electrical Engineering*
Dr. James G. Gotting

Garry Lynn Gibson, Falls of Rough, KY; B.S., M.A. (Western Kentucky University); *Agricultural Education*
Dr. R. Kirby Barrick

Glenn Edward Good, Columbus; B.A. (University of California, Davis); M.S. (University of Oregon); *Psychology*
Dr. Don Dell

Nancy McCampbell Grace, Columbus; B.A. (Otterbein College); M.A.; *English*
Dr. Patrick Mullen

Lisa Marie Green, Columbus; B.S. (Northern Illinois University); *Chemistry*
Dr. Devon Meek

Michael Roger Green, Columbus; B.S. (Northern Illinois University); *Chemistry*
Dr. Bruce E. Bursten

Terrell James Green, Hannibal, MO; B.S. (University of Missouri); M.S.; *Chemical Engineering*
Dr. Edwin E. Smith

Jeff Steven Greenberger, Ossining, NY; B.A. (State University of New York at Binghamton); M.A.; *Classics*
Dr. June Allison

Joshua S. Greenfeld, Bat Yam, Israel; B.A. (Tel Aviv University); M.S.; *Geodetic Science and Surveying*
Dr. Dean C. Merchant

John Charles Gruber, Cincinnati; A.B. (Xavier University); M.A.; *Classics*
Dr. Charles Babcock

Lawrence Otweyo-Migire Gumbe, Nairobi, Nairobi, Kenya; B.S. (University of Nairobi); M.S. (Cranfield Inst. of Tech.); *Agricultural Engineering*
Dr. G. L. Nelson

Lillian Smith Halverson, Buckhannon, WV; B.S., M.S. (University of Wisconsin); *Home Economics*
Dr. Virginia M. Vivian

Paula Dee Halverson, San Diego, CA; B.A. (San Diego State University); M.A. (Pepperdine University); *Health, Physical Education and Recreation*
Dr. Daryl Siedentop

Lynne Louise Hamelberg, Columbus; B.S., M.Ed. (Ohio University); *Education*
Dr. Michael Orlansky

Sang-Geun Han, Jeon-ju, South Korea; B.S. (Seoul National University); M.A. (New Mexico State University); *Mathematics*
Dr. Warren Sinnott

Alfred Albert Haug, Biberach, West Germany; *Volkswirt* (University of Konstanz); M.A.; *Economics*
Dr. Stephen McCafferty

Xin He, Beijing, P.R.C.; M.S., M.S.; *Computer and Information Science*
Dr. Yaacov Yesha

Lawrence James Hettinger, Lee, NH; B.A. (University of New Hampshire); M.A.; *Psychology*
Dr. Dean H. Owen

Nancy Sue Hinkeldey, Rockville, MD; A.B. (Muhlenberg College); M.A. (University of Maryland); *Psychology*
Dr. Theodore J. Kaul

Mahantesh S. Hiremath, Maharashtra, India; B.E., M.E. (University of Poona); M.S.; *Civil Engineering*
Dr. Ranbir S. Sandhu

William Christopher Hoffman, Allentown, PA; B.S. (Lehigh University); *Chemistry*
Dr. David J. Hart

Kathleen Elizabeth Hofland, Canton, NY; B.A., M.S. (State University of New York); *Education*
Dr. Gay S. Pinnell

William Sungil Hong, Washington Crossing, PA; B.S.Cer.E., M.S. (Massachusetts Institute of Technology); *Ceramic Engineering*
Dr. Dennis W. Ready

M. Ayub Hossain, Bangladesh; B.S. (Dacca University); M.S. (University of Illinois); *Statistics*
Dr. Robert Bartoszynski

Sue Ann Howard, Columbus; B.S.Soc.Wel., M.S.W.; *Social Work*
Dr. Keith Kilty

Tzu-Chien Jeffrey Hsu, Taipei, Taiwan, R.O.C.; B.S. (National Taiwan University); M.S.; *Chemical Engineering*
Dr. Ly J. Lee

Nam Sung Huh, Chunchon, South Korea; B.S. (Korea Military Academy); B.A. (Seoul National University); M.A.; *History*
Dr. Allan R. Millett

Pak-Ming Hui, Hong Kong, Hong Kong; B.Sc. (University of Hong Kong); M.S.; *Physics*
Dr. David Stroud

Jeongsang Hwang, Taegu, South Korea; B.S., M.S. (Seoul National University); *Chemistry*
Dr. Jack Hine

Kinko Ito, Kasugai, Aichi, Japan; B.A. (Nanzan University, Japan); M.A.; *Sociology*
Dr. Gisela J. Hinkle, Dr. Roscoe C. Hinkle

Esther Javetz, Tel-Aviv, Israel; B.A. (Tel-Aviv University); M.A.; *Education*
Dr. John C. Belland

Yi-Long Jaw, Taiwan, R.O.C.; B.S.Che.E., M.B.A. (National Taiwan University); M.A.; *Business Administration*
Dr. Riad A. Ajami

Tian-Tzer Jeng, Taiwan, R.O.C.; B.S. (National Taiwan University); M.S. (National Chiao-Tung University); *Statistics*
Dr. R. C. Srivastava

Teresa Whitehead Julian, Columbus; B.S.N. (Southeast Missouri State University); M.S.N. (University of Tennessee); *Home Economics*
Dr. Patrick C. McKenry

Ahmad Mohammad Khalil, Irbid, Jordan; B.S., M.S. (University of Jordan); *Zoology*
Dr. Wayne B. Parrish

Yong Cheol Kim, Seoul, South Korea; B.A. (Seoul National University); M.A., M.A.; *Business Administration*
Dr. Rene M. Stulz

Mitsuru Kitamura, Toyono, Japan; B.Eng. (Tokyo Metropolitan University); M.S.; *Engineering Mechanics*
Dr. Sunder H. Adovni, Dr. June K. Lee

Tippawan Kittivibul, Bangkok, Thailand; B.A. (Thammasat University); M.Ed. (Sri Nakharinwiroj University); *Sociology*
Dr. Sharon K. Houseknecht

Patricia King Latham, Columbus; B.S.Nurs., M.S.; *Agricultural Economics and Rural Sociology*
Dr. Ted Napier

- Brenda Louise Henry Leake**, Toledo; B.Ed. (University of Toledo); M.A.; *Education*
Dr. C. Ray Williams
- Donald Oneal Leake**, Chester, PA; B.Ed. (University of Toledo); M.A.; *Education*
Dr. C. Ray Williams
- W. Britt Leatham**, Columbus; B.A. (Weber State College); M.S.; *Geology and Mineralogy*
Dr. Walter C. Sweet
- Dae Joo Lee**, Seoul, South Korea; B.S. (Seoul National University); M.S. (Korea Adv. Institute of Science and Technology); *Industrial and Systems Engineering*
Dr. Richard A. Miller
- Teresa Ann Lehman**, Columbus; B.S. (Bowling Green State University); *Physiological Chemistry*
Dr. George E. Milo
- Timothy William Lohner**, Columbus; B.S. (University of Cincinnati); M.S.; *Entomology*
Dr. Susan Fisher
- William Michael Lynn**, Houston, TX; B.A. (University of Texas); M.A.; *Psychology*
Dr. Timothy C. Brock
- Andrea Mary Mann**, Oakville, Ontario, Canada; B.A. (McMaster University); M.Sc. (Dalhousie University); *Health, Physical Education and Recreation*
Dr. B. Nelson
- John Theodore Manolukas**, Columbus; B.A. (Hiram College); *Medical Microbiology and Immunology*
Dr. J. Dennis Pollack
- Laurie Ann Marburger**, Westerville; B.S.Ed., M.A.; *Education*
Dr. Otto Santos
- Donald Gerard Marchlenski**, Wheeling, WV; B.S. (West Virginia University); M.S.; *Physics*
Dr. S. Leslie Blatt
- Robelyn S. Marlow**, Columbus; B.S., M.A.; *Home Economics*
Dr. Barbara Newman
- Becky Ann McDonald**, Columbus; B.A., M.A. (Marshall University); *Communication*
Dr. John J. Makay
- Mariann Cavanaugh McElwain**, Columbus; B.A. (Franklin & Marshall College); *Medical Microbiology and Immunology*
Dr. J. Dennis Pollack
- Robert Taylor McLaughlin**, Columbus; B.A. (Denison University); M.S. (Southern Illinois University); *Education*
Dr. Virgil E. Blanke
- Abigail McWilliams**, Westerville; B.S.Bus.Adm., M.A.; *Economics*
Dr. Howard P. Marvel
- Abbas Salih Mehdi**, Iraq; B.A. (Al-Mustansiriyah); M.A. (Bath University); *Sociology*
Dr. William Form
- William Robert Melick**, Worthington; B.S. (Indiana University); M.A.; *Economics*
Dr. Randall Olsen
- Teresa Marie Mensing**, Rochester, NY; B.A. (State University of New York); M.S.; *Geology and Mineralogy*
Dr. Gunter Faure
- Laurie Beth Mintz**, Columbus; B.S. (Union College); M.A.; *Psychology*
Dr. Nancy E. Betz
- Seyed-Mehdi Miri**, Tehran, Iran; B.S. (Western Michigan University); M.S.; *Electrical Engineering*
Dr. A. Keyhani
- Christina Jane Morris**, Bristol, England; B.S. (Queen Mary College, University of London); M.S.; *Microbiology*
Dr. John N. Reeve
- Mary Eucharis Mulcahy**, Cork City, Northern Ireland; B.Social Science, M.Social Science (University College Cork); *Sociology*
Dr. William Form
- Sridhar Narasimhan**, Madras, India; B.E. (Birla Institute of Tech. & Science); M.B.A. (Indian Institute of Management); M.S. (University of Rochester); *Business Administration*
Dr. David A. Schilling
- John Phillip Nass, Jr.**, Columbus; A.A. (Delta Community College); B.A. (Michigan State University); M.A. (Western Michigan University); *Anthropology*
Dr. Richard W. Yerkes
- Deborah Sue Nichols**, Columbus; B.S.Al.Hth.Prof.; M.A. (University of Toledo); *Psychology*
Dr. Beverly Thorn
- Matthew Gavin Norman**, Washington, DC; B.A. (Towson State University); M.A. (Georgetown University); *Agricultural Economics and Rural Sociology*
Dr. Norman Rask
- Susan Kaye Opt**, Columbus; B.F.A. (Wright State University); M.A.; *Communications*
Dr. William R. Brown
- Crystal L. Owen**, Columbus; B.A., M.A.; *Business Administration*
Dr. H. R. Bobbitt, Jr.
- Un-Quei Winkey Pan**, Toulou, Yunlin, Taiwan, R.O.C.; B.S. (National Cheng Kung University); M.S.; *Statistics*
Dr. Saul Blumenthal
- Kavita Krishnakumar Pandit**, Bombay, India; B.Arch. (Bombay University); M.C.R.P., M.A.; *Geography*
Dr. Emilio Casetti
- Maria Pantelia**, Athens, Greece; B.A. (University of Athens-Greece); M.A.; *Classics*
Dr. Stephen V. Tracy
- Chris Edward Paterson**, Marion; A.A., B.S., M.A.; *Psychology*
Dr. Richard K. Russell
- Petros Georgios Patias**, Kozani, Greece; Dipl.Eng. (University of Thessaloniki); M.S.; *Geodetic Science and Surveying*
Dr. Kurt K. Kubik
- Martin William Payne**, Akron; B.S. (State University of New York at Buffalo); *Chemistry*
Dr. Sheldon G. Shore
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- Kelli Lynne Paxton**, Pataskala; B.A.; *Speech and Hearing Science*
- Sue Ellen Peters**, Nappanee, IN; B.S. (Ball State University); M.A., M.A. (Sangamon State University); *Psychology*
- Kathy Lee Phipps**, Reynoldsburg; B.S. (Findlay College); *Education*
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- Roy Eugene Rhoades**, Chillicothe; B.A. (Moody Bible Institute); *Education*
- Robert Emmett Riordan**, Columbus; B.S.; *Education*
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Ann Elizabeth Yersavich, Columbus; B.A. (Ohio Dominican College); *Health, Physical Education and Recreation*

Marina Zvetina, Columbus; B.A. (Xavier University); *Education*

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Jagannathan Krishnan, New Delhi, India; B.Com., M.Com. (University of Delhi, India); Chartered Accountant (The Institute of Chartered Accountants of India); *Business Administration*

Master of City and Regional Planning

Ali Nasirzadeh, Iran; B.S.C.E., M.E.; *City and Regional Planning*

Yoo-Sheng Tsao, Kaohsiung, Taiwan, R.O.C.; B.S. (Teng-Chua University); *City and Regional Planning*

Master of Fine Arts

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Kevin James Hayes, Tucson, AZ; B.A. (Saint Vincent College); M.A.; *Theatre*

Mark Edward Kirk, San Antonio, TX; B.F.A. (Southwest Texas State University); *Theatre*

Hee Sun Lee, Seoul, South Korea; B.A., M.F.A. (EWHA Womans University); *Art*

Mark Robert Lysowski, Campbell; B.F.A.; (Youngstown State University); *Art*

Lisa Ann Molyneux, Delmar, NY; B.A. (State University of New York at Geneseo); *Theatre*

Marc Edwin Moulton, Kaysville, UT; B.A. (Weber State College); *Art*

Susan M. Schimke, Port Washington, WI; B.F.A. (University of Wisconsin-Oshkosh); *Art*

Barbara Gene Veatch, Worthington; B.F.A.; *Art*

Mary Ellen Watkins, Columbus; B.F.A. (Rhode Island School of Design); *Art*

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Master of Labor and Human Resources

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Jayne Hays Cohn, Columbus; B.A. (Kenyon College); *Labor and Human Resources*

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Master of Landscape Architecture

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Master of Liberal Studies

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Master of Music

Joseph George Cisneros, Jr., San Antonio, TX; B.A. (University of Houston); *Music*

Master of Public Administration

Michael Derek Champness, Farmington, MI; B.S.E., (University of Michigan); *Public Administration*

Jacqueline Lee Schneider, Cincinnati; B.S. (University of Cincinnati); *Public Administration*

Master of Science

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- James Bernard Olesen**, Columbus; B.S. (Bowling Green State University); *Genetics*
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Paul Evan Reed, Columbus; B.S.E.E.; *Electrical Engineering*

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Ronald Jay Rice, Columbus; B.S. (Purdue University); *Chemistry*

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Cheryl Ann Riley, The Plains; B.S.N. (Capital University); *Nursing*

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Ye-Don Shin, Pusan, South Korea; B.S. (Pusan National University); *Industrial and Systems Engineering*

Young Shil Shin, Columbus; B.S. (Yonsei University); *Plant Pathology*

Robert Samuel Simon, Columbus; B.A. (Reed College); *Mathematics*

Robert D. Sommers, London; B.S. (Miami University); *Agricultural Education*

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Nizar Trigui, Sfax, Tunisia; B.S.M.E.; *Mechanical Engineering*

Mark Alan Tucker, Poplar Bluff, MO; B.S. (University of Missouri-Columbia); *Agricultural Education*

Andrew Mark Turner, New Carlisle; B.A. (Wittenberg University); *Zoology*

Michael Vanlandingham, Milford; B.S.All'd.Hlth.Prof.; *Allied Medical Professions*

John Thomas Vaughan, St. Petersburg, FL; B.S. (Appalachian State University); M.S. (University of Florida); *Zoology*

Eric K. Voelk, Williamsville, NY; B.A. (State University of New York); *Chemistry*

Bonnie Wagoner vonClausburg, Ridgeway, VA; *Home Economics*

Ming-Tzong Wang, Taiwan, R.O.C.; B.S. (National Taiwan University); *Industrial and Systems Engineering*

David Lee Wantz, Cambridge; B.S. (Ohio Northern University); *Pharmacy*

James Ward, Wilmington; B.S. (University of Dayton); *Electrical Engineering*

Linda Ward, Toledo; B.S. (Michigan State University); *Preventive Medicine*

Thomas Joseph Ward, Columbus; B.S.M.E.; *Mechanical Engineering*

Edward Joseph Weisse, Columbus; B.S. (University of Wisconsin-Oshkosh); *Mathematics*

Jean Moore Wiley, Delaware; B.S.H.E.; *Home Economics*

Julie Ann Wise, Groveport; B.S.Nursing (Franklin University); *Nursing*

Hanwen Xie, Chengdu City, P.R.C.; M.S. (Chongqing University); *Mechanical Engineering*

George David Yocum, Dayton; B.S.Agr.; *Entomology*

Master of Social Work

Michael Colwell, Newark; B.S.W. (Capital University); *Social Work*

Lorraine Marie Cross, Defiance; B.S. (Defiance College); *Social Work*

Linda Gorrell, Dover; B.S. (Kent State University); *Social Work*

Paul C. F. Henry, Columbus; B.A. (Ohio Dominican College); *Social Work*

Debra Ann Luciano, Fredonia, NY; B.A. (State University of New York, Fredonia); *Social Work*

Sandra Irelene Whitehead, Lorain; B.A. (Mount Union College); *Social Work*

Certificate of Specialist in Latin America Area Studies

Jeanne Lynn Friedman, Columbus; B.A. (Gannon University); M.A.; *History*

Colleges of the Arts and Sciences

Chairman, Coordinating Council of
Deans: Joan Huber

The Colleges of the Arts and Sciences, a
federation of five colleges, includes:

College of the Arts
College of Biological Sciences
College of Humanities
College of Mathematical and Physical
Sciences
College of Social and Behavioral Sciences

College of the Arts

Acting Dean: Robert L. Arnold

Bachelor of Arts

William James Aldrich, Kettering
Patrick Daniel Benedict, Akron
Thomas Lea Coletta, Lakewood
Lynn Rae Follas, Van Wert
Michael Jay Fry, Coshocton
Matthew Todd Kilmer, Kettering
Mikel James Monnett, Buckeye Lake
Michele Eileen Ready, Warren
Susan Marie Scully, Bay Village
LoLitta Snow, Columbus
James William Swift, Columbus
Vivian Celeste Terhune, Beaver Creek

Bachelor of Fine Arts

Mary Beth Jude Benish, Youngstown
Joseph Reno Bernardo, Westerville
Kevin J. Connell, Columbus
Jane Ann Jackson, Chardon
Rita Michelle Jenkins, Youngstown
Elaine Grosshandler Joseph, Zanesville
Elizabeth Anne Melcher, Akron
Randall David Oldrieve, Columbus
William James Rankin, Steubenville
Edmund Joseph Ritchey, Columbus
Rafael Rosado, Lima
Brian Thomas Sating, Columbus
Edward Louis Sonner, Sunbury
Stephanie J. Stickford, Dublin
Jane Wellington Stooke, Columbus

Bachelor of Music

Vernon Lee Hairston, Mansfield
William Charles Mulligan, Columbus
Milton Vaughn Ruffin, Youngstown

Bachelor of Art Education¹

Lesley Ann Lieser, Columbus
Kathleen Ann Mulholland,
Rockville, MD
Anita Sue Rigsby, Columbus

Bachelor of Art Education²

Susan Cornelia Jenkins, Somerset

Bachelor of Music Education²

Michele Lynn Dailey, Columbus
Heidi Lynn Hellstrom, Gahanna

Bachelor of Science in Industrial Design

Marietta L. Hock, Vandalia
Melissa Ann Rady, Toledo

College of Biological Sciences

Dean: William A. Jensen

Bachelor of Arts

Jeffrey Matthew Haight, Sardis

Bachelor of Science

Lisa Marie Abdullahi, Pittsburgh, PA
Christine Elizabeth Andrews, Columbus
Paula Ann Azar, Akron
Assad Andy Aziz, St. Clairsville
Robert E. Breving, Jr., Cincinnati
Lori Ann Chrysler, Columbus
Lisa Dilorio, Lyndhurst
George Emil Joseph, Cincinnati
Eugenia Karousis, Warren
Thomas Allen Kleinhanzl, Jackson
Stephen Paul Lacy, Centerville
Deborah Lynn McCormick, Middletown
Donna Marie Metzger, North Ridgeville
Innocent Ajuluchi Nweze, Awka,
Anambra State, Nigeria
Kishor Kumar Patel, Columbus
Roberta Adams Smith, Columbus
Thomas David Thomas, Middleburg
Heights
Jennifer Mary Wall, Centerville
Michael Edward Whitcomb, Jr., Upper
Arlington
Glenn Phillip Zemel, University Heights

¹Offered by the College of the Arts

²Offered by the College of the Arts and the College of
Education

College of Humanities

Dean: G. Micheal Riley

Bachelor of Arts

Randi Lynn Bader, Mayfield Village
Jeri Lynn Barnitz, Columbus
Pete J. Bellini III, Cleveland Heights
Donald Joseph Brand, Columbus
Stephen Paul Butler, Newark
Darcie Lynn Dodds, Worthington
Michael Douglas Downs, Columbus
Katherine Johnson Dyer, Wilmington, DE
Fritz Nicholas Fekete, Youngstown
Karl James Gieseke, Hilliard
James Peter Gillespie II, Steubenville
Paul Eric Goebel, Worthington
Ann Frances Griffith, Warren
David Christien Hambric, Columbus
Elizabeth Anne Handley, Columbus
Scott David Henry, Columbus
Jeffrey Lawrence Hochman, Dayton
D. Keith Holder, Atlanta, GA
Kirsten Lynn Isgro, Berea
Nicholas George Jonson, Hamilton
Geoffrey David Koeppinger, Aurora
Katherine Ann Korda, Columbus
Caitin Mountain Lancione,
Wheeling, WV
Norman W. Litts, Jr., Columbus
*David U. Lopez, Canton
Robert J. Luehrs, Rocky River
Jodie Ann Michel, Santa Monica, CA
Melissa Dianne Moats, Akron
Mikel James Monnett, Buckeye Lake
Mark James Petrykowski, Grafton
Margaret Rose Rush, Granville
Natalina Sestito, Columbus
Michele Jeanine Shump, Portsmouth
Douglas Israel Speicher, North Canton
John Patrick Stinnett, Dublin
Thomas Laurence Thomas, Painesville
Carl Douglass Tyler, Cincinnati
Julie Ann Winters, Mt. Healthy
Stacie Sue Wright, Columbus
Keith Allen Zahniser, Upper Arlington
Elizabeth Ann Zimmerman, Tallmadge

College of Mathematical and Physical Sciences

Dean: C. William Kern

Bachelor of Arts

Jonathan Chapin Backus, Columbus
Mary Jo Cairnes, Lakewood
Ann Marie Diederich, Concord
A Wayne Jones, Columbus
Brian Keith Shann, Sayreville, NJ
Eric Bogardus Stuart, London

*Awarded Posthumously

Bachelor of Science

Eric Christopher Adamaszek, Dublin
James C. Arp, Columbus
Gregory Paul Balson, Warren
John Philip Bricker, Columbus
Pamela Sue Brooker, Warren
Deborah Lynne Brooks, Kenton
Cynthia Anne Carlson, Beavercreek
Yong Sok Choe, Mansfield
Jonathan Andrew Curry, Worthington
Laurie Anne Dashner, Columbus
Bert N. Doddroe, Mt. Sterling
Abdulcelil Germeyan, Gaziantep, Turkey
Paul Jonathan Gossard, Lima
Mehrdad Haddad, Tehran, Iran
Douglas Lionel Henderson, Columbus
Richard Wayne Jones, Opelika, AL
Earl Joseph Kehres, Troy
Oliver Peter King-Smith, Columbus
Irene Oi-Chun Ku, Hong Kong
Michael Joseph Masset, Cincinnati
Lisa Marie Mize, Columbus
Eric Christopher Peyko, Vienna
Robert Richard Piatt, Grandview Heights
Nick Joseph Scaglione, Canton
Tamara Kimiko Seno, Huber Heights
Carmen Michelle Taylor, Lincoln Heights
Colette G. Thomas, Columbus
Lisa Marie Zimmerman, Painesville

College of Social and Behavioral Sciences

Dean: Joan Huber

Bachelor of Arts

Robert John Alexander, Jr., Lighthouse Point, FL
Sarah Marie Andes, Westlake
Lisa Kay Andrews, Lancaster
John William Baglione, Columbus
John Clement Banche, Columbus
Steven Dawson Barker, Pickerington
Robert Alan Barnhard, Mentor
Jack L. Barnhart, Norwalk
Timothy Roy Bartlett, Jackson
Ivra Darnell Bass, Berea
Erick Louis Bauer, Canal Winchester
James F. Beitel, Geneva
Lisa Susan Bell, Westerville
Rhonda Daleen Bichard, Coshocton
Nancy Ellen Bonnell-Kangas, Columbus
Dennis Christopher Brady, Wogglesland, AZ
Judy Kay Branson, Mansfield
Jami Dawn Bray, Garrettsville
Angela Dawn Buck, Columbus
Kirk Alan Busch, Lima
Rhonda Kay Butler, Salem, NH
Michael Edward Calcara, Columbus
Susan Marie Carey, Mason
Sherry Lynne Centers, New Lebanon
Michael Raymond Chase, Delaware
John Tyler Clayton, Cleveland

Lisa Coleman, Detroit, MI
Scott Frederick Collins, Maumee
Charles P. Conrad, Dublin
Julie Eden Corfman, Toledo
Tammy Jo Cornish, Jamestown
Robin Renee Craig, Red House, WV
Brian Evan Crystal, Cleveland
Carol Theresa Culley, Urbana
Cynthia Anne Curtis, Fairfield
Marvin Hanlon Dames, Nassau, Bahamas
Allen Scott Davis, Worthington
Melissa Louise Delk, Greenville
Brian Grant Delph, Marietta
Nancy Elizabeth Demaray, Columbus
Lisa Kay Desatnik, Cincinnati
Karen Dillon, Columbus
Mary Ellen Duross, Rochester, MI
Bryan Nolan Feldman, Columbus
Gregory John Fester, Westerville
Paul Joseph Fiocca, Silver Lake
Susan Kay Fisher, Columbus
Christine Rees Furr, Columbus
Carmen Rosa Garland, Akron
Margaret Ann Gedeon, Rocky River
Michael Keith Geiser, Columbus
Todd Andrew Gibson, Bay Village
Scott Sheffield Gowans, Granville
Carla Graziadei, Ashtabula
Elizabeth Krupp Griebeling, Lexington
Lynn Marie Grosso, Ontario
Joseph Scott Guth, Cleveland
John Randall Haas, Portsmouth
Michael Haase, Moreland Hills
Holly Jane Harold, Portsmouth
Rebecca Marie Hassan, Warren
Mark D. Hatch, Kent
Michael John Hathaway, Chillicothe
Monica Elaine Hawkins, Columbus
Julia Ann Helpfrey, Utica
Tristen Dail Hennings, Findlay
James Andrew Holanda, Berea
Cassandra Lee Hood, Mansfield
Deborah Ann Housley, Chagrin Falls
Michael Jay Huffman, New Philadelphia
Gary Alan Hurt, Columbus
Mario Edwin Rudolf Jaspers-van Vliet, Columbus
Versia Lee Jett, Dayton
Cedric Lydell Johnson, Cleveland
Naomi R. Johnson, Columbus
Angela Kay Johnston, Westerville
Gregory C Jump, Columbus
Mark David Kaczmarek, Chicago, IL
Debra Ann Key, Dayton
Kris Ann Kingsley, Chesterland
Robert Richard Kirschbaum, Dublin
Kimberly Renee Krumanaker, Marion
Dianne Susan La Cerva, Girard
Matthew Allen Landon, Columbus
Leo Fredrick Lauterbach, Dayton
Jorgelle Renee Lawson, Oberlin
Doug Eric Lingrel, Cardington
Marcy Joy Lipner, Pikesville, MD
Job Herbert Lippincott IV, Silver Lake
Bruce F. Loris, Mansfield
Lori Ann Lynn, Fairfield
Nicholas Robert Madigan, Troy
Tesfamichael Makonnen, Jimma, Ethiopia
Joseph Richard Matejkovic, Cincinnati

Mark Joseph Matsushima, Fairview Park
Joseph Otto Mattachione, North Canton
John David Matthews, Dayton
Ellen Teresa McCreary, Annandale, VA
Tanya Elaine McGinnis, Dayton
Donald Bradley McPherson, Columbus
Rhona Lisa Meyers, Cuyahoga
Charles Francis Mayo, Bay Village
Gregory Bruce Miller, Lima
Susan Catherine Minnich, Avon Lake
Lori Kathryn Morgan, Oberlin
David L. Moser, Lima
Kelly Ann Motil, Westerville
Mark Cassimer Moziejko, Steubenville
Amber Lee Nethers, Newark
Jeffrey Wayne Nowlin, Marion
Susan Elizabeth Offenberger, Columbus
Martha F. Palomar, Canton
Keith Basilio Papa, Brecksville
Michael Scott Pendleton, Middletown
Kathryn Diane Pennock, Frankfort
Judith Elizabeth Pinger, Cincinnati
R. Joseph Pospisil III, Glen Falls, NY
Monica Kaye Quinn, Columbus
James Edward Raterman, Circleville
James Robert Reske, Parma
Verna Kay Riffe, New Boston
Djuna Lynn Roberts, Springfield
Frank J. Ruggiero, Austintown
Stephen Robert Schweppe, Cincinnati
Charles Willis See, East Cleveland
Deborah Lynn SeEVERS, Lisbon
Martha Gerette Shannon, Columbus
Matthew G. Shannon, Columbus
Richard Lee Shell, Bryan
Peter Gerard Shields, Glasgow, Scotland
Timothy Heaton Silcott, Columbus
Joan Marie Srncic, Granville
Cassandra Lynn Stallworth, Cincinnati
Edward Charles Stelnicki, Toledo
James Andrew Stewart, Columbus
Kim Anne Stickley, Waterville
John Edward Stock, Pataskala
Amy Jean Stover, Galion
Laurie Denise Sutherland, East Palestine
Jane Dasher Thill, Bay Village
Michael Winston Thomas, Grove City
Karen Eileen Thompson, Portsmouth
David Scott Tivin, Cincinnati
James Peter Trakas, Independence
William Scott Trau, Beachwood
Andrew Powell Travis, Reynoldsburg
Leigh Ann Tumulty, Worthington
Charles Stuart Tyroler, Columbus
Dawn Evie Tyus, Cincinnati
William Edward Van Dorn, Jr., Saratoga Springs, NY
Pamela Marie Varandani, Yellow Springs
Esther Ann-Louise Verbosvsky, Rocky River
Jane Marie Wallace, Worthington
Alvin Kent Washington, Cleveland
Robin Hope Weinstein, Cincinnati
David James Wilber, Gahanna
Lisa Anne Wilson, Columbus
Penny Lee Yannekis, Trotwood
Carla Ann Zaffiro, Pepper Pike
Rebecca Ann Zahn, Virginia Beach, VA

Bachelor of Science

Stephen Bernard Bowman,
Upper Arlington
Laura Kay Bretz, Vandalia
Robert E. Breving, Jr., Cincinnati
J. Christopher Carson, Wooster
Troy Andrew Chase, Havelock, NC
Jacqueline Marie Foley, Convoy
Joan Marie Forthofer, Durham, NC
James Bryant Hittner, Columbus
Edward John Holleran,
Broadview Heights
Robert J. Luehrs, Rocky River
Rusty Lee Myers, Zanesville
Lisa Kaye Ramage, Chesterland
Jill Ellen Riley, Akron
Scott Norman Smith, Brooklyn
Johanna Kay Stevens, Binghamton, NY

School of Journalism

Bachelor of Arts in Journalism

Robin Sue Berry, Norwalk
Laura Lee Botula, Mt. Lebanon
Sheri Lynn Buckner, Columbus
Kathryn Kelley Bull, Solon
Lisa Helene Cohen, Beachwood
Andrew Joseph Conroy IV, Cincinnati
Julia Ann Conway, North Olmsted
Stacie Ann DeGennaro, Painesville
Carolynn Frances Doyle, Boardman
Terri Lynn Eakins, St. Clairsville
Stephanie Marie Ewert, Canfield
Darin T. Falleur, Fairborn
Lisa Jo Farrell, Worthington
Kurt L. Faymon, Cleveland
Kristen Leigh Flora, Columbus
Lotti Coreen Francis, Gahanna
Kenneth John Frazier, Columbus
Beth Ann Gabel, Fremont
Margaret Denise Hart, Dayton
Lorie Ann Hilty, Toledo
Larry Edward Hinkle, Jr., Columbus
Arlene Reitz Hobday, Cuyahoga Falls
Sally K. Hritz, Columbus
Kevin Shaw Kellems, Indianapolis, IN
Lynn Marie Kolbe, Columbus
Karen Lynn Kraus, Cincinnati
Matthew Brizman Marx, Bexley
Robin Lynn McAllister, Springfield
Craig James Mihaly, Russell
Andrew Isaac Newman, Shaker Heights
Debra Lee Pedersen, Upper Arlington
Timothy Tod Raymond, Johnstown
Andrea Razavi, Pepper Pike
Nancy Robertson Reid, Columbus
Maria Annette Reynolds, Akron
Cynthia Louise Reza, Findlay
Thomas John Rinderle, Euclid
Karen Marie Ring, Westerville
Andrea H. Rubin, Orange
EdMarlon Mendoza Salero, Warren
Michelle Ann Schwartz,
Mayfield Heights
Randall Eric Scoville, Canton

Mark Edward Shriver, Bellaire
Scott N. Skinner, Waterville
Carolyn Louise Smith, Greenville
Brent Lee Snow, Fayette
Howard Adolph Spies, Jr., Worthington
Richard Brown Steere, Jr., Ashland
Marc James Studley, Brecksville
Holly Marie Sulek, Cincinnati
David Smith Summers, Zanesville
Robert Cameron Taylor, Amherst
Rock Alan Van Wey, Newark
Beth Anne Voss, Cincinnati
Karen Lynn Wargo, Chardon
David Andrew Webster, Warren
Ann Wertheimer, Cincinnati
Therese Joan Wesner, Westerville
Cheryl Lynn Wilson, Worthington
Lisa Kaye Zellner, Hilliard

College of Agriculture

Dean: Frederick E. Hutchinson

Bachelor of Science in Agriculture

Scott M. Barrett, Belpre
Laura Louise Brinkman, Holgate
Flora Orcutt Clyde, Pioneer
Robert Warren Flood, Xenia
Christopher James Flynn, Middletown
Tracie Morin Fream, Middletown, NJ
Tamara Beryl Gall, Washington Court
House
Daniel Dean Morrison, New Concord
Thomas Owen Morrison, Brewster
Mark Alan Murphy, Greenville
John Joseph Nemcek, Columbus
Cynthia Lou Pirc, Rock Creek
Jeffrey David Ritzler, Nevada
Ryan Cabot Shaeffer, Lancaster
James R. Slyh, Columbus
Paul Douglas Smith, Mt. Arlington, NJ
Timothy John Suter, Perrysburg
Fernando Vargas, Bogotá, Colombia
Mark William Wargo, Chardon
Paul Robert Washburn, Loveland
Neil Douglas Wiedeman, New Bremen
Carl Francis Will, Fort Recovery

Bachelor of Science in Food Science

Monica Rose Long, Columbus
Denise Ellen Neu, Hamersville

Bachelor of Science in Food Technology

James Vincent Calhoun, Toledo
Diane Marie Goodlet, Seven Hills
Lisa Christine Johnson, Somerset

Bachelor of Science in Nutrition

Steven J. Massie, St. Paris

School of Natural Resources

Bachelor of Science in Natural Resources

Pamela Anne Doerner, Norwalk
Cynthia Jo Greenberg, Cleveland
Samuel W. Holley, Windsor
Rody Michael Prodonovich, Cortland
Caroline Wightman Wilkinson, Oxford

Agricultural Technical Institute - Wooster

Associate in Applied Science

Sandra Ann Fravel, Springfield
Claire Alison Klenotic, Youngstown
Andrew Jay Luft, Wooster
Joanne Lee Meszaros, Strongsville
Bruce Alan Myers, Kirtland
James Scott Newell, Carrollton
Michael Clancy O'Donnell, Willowick
Nancy Lynne Palm, Warren
James Joseph Pigat, Maple Heights
Cheryl Ann Radabaugh, Mansfield
Scott Allen Rush, Polk
Michael Steven Sedlak, Fairview Park
Brad Eugene Waltz, Bowling Green

College of Business

Dean: H. Justin Davidson

Bachelor of Science in Business Administration

Julie Kay Adams, Findlay
Susan Faye Armstrong, Chagrin Falls
Kathleen Ann Ashcraft, Cincinnati
Joel Robert Bagby, Warren
Jackie Lorraine Bailar, St. Paris
Lucinda Ann Ballenger, Columbus
Leon H. Barrick, Green Springs
David James Bartels, Solon
Dana Marie Bellomo, Parma
Barry P. Bennett, Lexington
Robert M. Berlin, Akron
Jennifer Lynn Black, Wintersville
Eric R. Blumenthal, Beachwood
Jeffery Bruce Boecker, Newark
Jeffrey Allen Boll, Rocky River
Amy Terese Bonfiglio, Sandusky
Brett George Bourquin, Berea
Scott James Boylan, Seven Hills
Jan Gunnar Braathen, Oslo, Norway
Kelly Anne Brandal, Columbus
William Raymond Braun, Wooster
Carmen Marie Brewster, Swanton
Jill Marie Bricker, Columbus, GA
Timothy Joseph Brogla, Lima
Brian Keith Brown, Columbus

Cynthia Louise Bryan, Reynoldsburg
 Timothy R. Burks, Youngstown
 Daniel Gerard Busken, Cincinnati
 Judy Ann Cannon, Berea
 Tracey Katherine Cannon, Columbus
 Jeffrey Michael Carducci, Poland
 Shirley Sau-Kuen Cheung, Columbus
 Cevin Brent Clark, Carroll
 Kimberly Clark, Andrews A.F.B., DC
 Maureen J. Cochran, Cuyahoga Falls
 Amy Diane Coman, Gahanna
 Randolph R. Conone, Columbus
 William Allen Cooper, Columbus
 Kathleen Maher Coughlin, Cincinnati
 Ronald Jay Cox, Johnstown
 Helena B. Crevonis, Columbus
 David Michael Crowley, Bowling Green
 Julio Cesar Cruz, Jr., Lima, Peru
 Donald Jeffrey Cunningham, Columbus
 Christina Marie Curran, Reynoldsburg
 Albert C. D'Agostino, Fort Lauderdale, FL
 Kimberly Marie Dague, Norwalk
 Herbert J. Dales, Jr., Newark
 Michael Patrick Daugherty, Lakewood
 Barton W. Davis, Gallipolis
 W. Russell Denton, Columbus
 Lisa Jane DeRespiris, Mentor
 Lisa Noel Diefenthaler, Toledo
 Bertha Lucia Dodel, Pataskala
 Sharon Kay Dodge, Canton
 Rebecca Cai Doherty, Toledo
 David William Doran, Pacific
 Palisades, CA
 Ann Elizabeth Downey, Columbus
 Richard Edward Doyle, Medina
 Daniel James Dubnicka, Pepper Pike
 Nicholas Stephan Dubyk, Seven Hills
 Jeanine Lynn Duck, Copley
 Cheryl Lynn Duko, Canfield
 Amy Ginger Easterday, Williamsport
 Michael Lindsey Eichner, Kettering
 Kathryn Anita Eiert, Perrysburg
 Joseph V. Erwin, Columbus
 Kuniko Fairchild, Nagoya, Japan
 Dwayne L. Fields, Mansfield
 Jodie Lynn Fields, Columbus
 Joseph Merlin Fike, Sylvania
 Leslie Joan Finkhausen, Van Wert
 Robert Louis Flais, Alliance
 John Eric Flitcraft, Pickerington
 Dale Eric Frazier, Columbus
 Joel Christopher Gasior, Findlay
 Vicki Lynn Geiger, Middleburg Heights
 Christopher James Gerardi, Columbus
 Richard Alan Gerber, Sandusky
 Michael James Geregach, North Royalton
 Earl Leland Gingerich, Cleveland
 Margaret Lee Goulding, Mansfield
 Daniel Gozdoff, North Canton
 Allison L. Graf, Chattanooga, TN
 Kenneth David Graham, Mansfield
 Angela Lynn Greschner, St. Louis, MO
 John Anthony Guagenti, Elida
 Joel Guggenheimer, Dayton
 Joseph Vincent Guzzo, Columbus
 Patricia Lynn Haap, Vandalia
 Deborah E. Haigh, Kettering
 Joan M. Hamill, Kettering
 Terry Allen Hammett, Lexington

Stephen Rexford Hardin, Sylvania
 Kathryn Ellen Harvey, Akron
 Denise Elaine Haugen, Dayton
 Tyrone Dean Hauritz, Canton
 Diane Elizabeth Hedges, Westerville
 Robert William Heise, Cincinnati
 William F. Helfer, Newark
 William Todd Henehan, Kettering
 Brian Jay Henry, Columbus
 Dennis Ray Hicks, Grove City
 Larry Duane Hilsmer, Jr., Urbana
 Paul A. Hoffman, Beachwood
 Richard Lee Hom, Austintown
 Russell Robert Hoser, Stewartsville, NJ
 David Douglas Hritsko, Lorain
 Thomas Gordon Innes, Vermilion
 Christine Renee Jameson, Columbus
 Bret Edward Jimison, Shelby
 Lawrence Phillip Johnson, Cuyahoga Falls
 Regina Marie Johnston, Girard
 Kimberly Paige Jones, Chagrin Falls
 William Paul Jones, Dayton
 Dennis Michael Kane, Ashtabula
 Jeffrey William Kaser, Columbus
 David Gerard Kastner, Shelton, CT
 Jordan Soloway Katz, Beachwood
 Scott Alan Kaufman, Ottoville
 Robert E. Kellar, Jr., Westerville
 Nancy Ellen Kemery, Bucyrus
 Anne Marie Kennedy, Bexley
 Charles Ronald Kieninger, Jr., Xenia
 Andrea Rae Kiesling, Gallipolis
 James Alan King, Harrod
 Adam Michael Kirk, Akron
 Luella Kirk, Columbus
 Jeffrey M. Kisel, Highland Heights
 Melanie Diane Klingel, Waldo
 Thomas Joseph Klug, Cincinnati
 Eric Jonathan Knodel, Cincinnati
 Anthony W. Kohl, Columbus
 Bradley Tod Kowit, Mayfield Heights
 Christine Renee Kramer, Centerville
 Mark J. Labardee, Toledo
 Kathryn Alice Lane, Newark
 Michele Lee Lange, Berea
 Thomas Dean Lather, Westerville
 Amy Yi-Chih Lee, Cincinnati
 Steven Howard Lencke, Columbus
 Sing Loong Leong, Ipoh, Perak, West
 Malaysia
 Jill Marie Lionetti, Akron
 Richard Edward Lishewski, Toledo
 Bradford Raymond Little, Cincinnati
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 Julie Elaine Lusa, Centerville
 Reynaldo Jeffrey Lyles, St. Paul, MN
 Randolph Scott Lyon, West Chester
 Rebecca Ann Malueg, Wapakoneta
 Melissa Lee Mamula, Fremont
 Landria Kim Mangrum, Cleveland
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 Todd Alan Marsh, Mentor
 Stephen Earl Martin, Lakewood
 James Anthony Marusin, Lorain
 Lisa Lynn McBride, Worthington
 Peter H. McCreary, Kettering
 Todd Jeffery McDonald, Defiance
 Monte N. Mees, Westerville

Edward Joseph Metzger, Delphos
 Theresa Lillian Meyer, Westerville
 Michael Paul Michalak, Columbus
 John Christopher Miller, Westerville
 Patricia Louise Mills, Chippewa Lake
 Thomas C. Mills, Cincinnati
 Paul Vincent Minor, Columbus
 Mark David Miralza, Chagrin Falls
 Mark Douglas Mohre, Edon
 Bailey Kevin Moore, Peninsula
 Dianna R. Moore, Massillon
 Kevin P. Morrow, Brooklyn, NY
 Steven M. Moser, Cincinnati
 Douglas Tyrone Moss, Dayton
 Carol J. Motta, Grafton
 Robin Marie Mroczkowski, Monclova
 Matthew Alan Nan, Germantown
 Lisa A. Napoli, Brookfield
 Marie Ann Nemes, Lima
 Teak Siang Ng, J. B., Johor, Malaysia
 Patrick Steven Oakley, Marysville
 Brian Cajetan O'Brien, Columbus
 Patrick Kevin O'Daniel, Columbus
 Mark W. O'Dell, Worthington
 Gené Moneque Olverson, Pittsburgh, PA
 Tawana Michelle Owens, Akron
 Elizabeth Martinez Pacheco, San Juan, PR
 Robert Francis Padilla, Jr., Pontiac, MI
 William Anthony Peoples, Columbus
 Amy Elizabeth Perrine, Columbus
 Lynn Electa Petre, Toledo
 Thomas Sansone Pisciotto, Palos
 Heights, IL
 Nancy Jo Fishner, Zanesville
 Thomas P. Pishotti, Cortland
 Christina Jane Price, Newark
 Damian Puchala, North Canton
 Mary Ann Radisek, Euclid
 Hilary Randolph, Columbus
 James Alan Ray, Sugar Creek
 Laura Allison Ray, Columbus
 John Matthew Rhenish, Columbus
 Robert Mayor Richardson, Paoli, PA
 Robert Craig Rissmeyer, Columbus
 Jeffrey Michael Roberts, Mansfield
 Paul Andrew Rockwell, Columbus
 Carl Vincent Rohr, Columbus
 Sheryl Ann Ross, Shelby
 Terry Lee Ross, Marion
 Jennifer Lynn Rotert, Grove City
 André Louis Runion, Marysville
 Teresa Lee Russell, Bucyrus
 Susan E. Saull, Woodstown, NJ
 Jeffrey Paul Saunders, Piqua
 Dennis Doynne Schaal, Circleville
 Troy Joseph Scharlow, Wooster
 Jayme Ann Schlund, Solon
 David Gerard Schmitt, Cincinnati
 Robin L. Schonenwetter, Columbus
 Paul Martin Schwarz, Havelock, NC
 Scott Paul Semer, Fredericktown
 Francisco Jose Serrano, Quito, Ecuador
 Nilesh Y. Shah, Cincinnati
 David Michael Sheppard, Delaware
 Yeow Kian Siang, Melaka, Malaysia
 Harry M. Simmons, Marion
 Jeffrey Jay Smith, Columbus
 Tracy Deborah Smith, Murrysville, PA
 David John Solon, Unionville, PA

Robert M. Sowa, Strongsville
 Ben Michael Speciale, Spring City, TN
 Joan Marie Stammen, North Star
 Susan Alice Starkey, Columbus
 Angela Stephens, Shaker Heights
 Gerald Dwayne Stethem, Canton
 Barbara Ann Stone, Columbus
 Richard Douglas Swanson, Worthington
 Aaron Lynn Swinger, Columbus
 David Kevin Sypolt, Louisville
 Kenneth John Syska, Columbus
 Joseph Eugene Szczepanski, Worthington
 Claudia René Tambur, Toledo
 Trisha Leigh Taylor, Upper Arlington
 Richard James Theiler, Ottawa Hills
 James Maurice Thorson, Dayton
 Steven Leonard Timmel, Cincinnati
 David Hal Tippet, Medina
 John J. Tracy, Livingston, NJ
 Chris Alan Underwood, Mt. Gilead
 Laura Marie Untener, Columbus
 Trina M. Uotila-Ross, Upper Arlington
 Jenean Louise VanBreen, Columbus
 Brent Vanke, Cleveland
 LouAnn Vasbinder, Fredericktown
 Vicki Lou Wheatley, Lindsey
 Traci Ann White, Columbus
 Jonathan Charles Whybrew, Columbus
 James Patrick Wiggins, Greensburg
 Michelle Renee Williams, Botkins
 Richard Scott Wohlgaumuth, New Albany
 Randall Perry Wolf, Cincinnati
 Pamela J. Wysocki, Strongsville
 Pau Fong Yoo, Johor Bahru, Johor, Malaysia
 Ginger Vass Yost, Columbus
 Leslie Jeanne Young, Upper Arlington
 Michael Jerome Zahler, Columbus
 Wendy Alice Zalelet, Chesterland
 Linda Ziskin, Dayton
 Donald Lee Zurcher, Columbus

Bachelor of Science in Labor and Human Resources

Tyrus W. Adkins, Proctorville

College of Dentistry

Dean: William R. Wallace

Bachelor of Science in Dental Hygiene

Denise Marie Bolek, Canton

College of Education

Dean: Donald P. Anderson

Bachelor of Science in Education

Marikae Akers, South Charleston
 Jane Andrea Altman, Canton
 Pamela Jean Baker, North Royalton
 Jeffrey Scott Barnes, Warren
 Judith Ann Baumer, Anna
 Tammie Jo Beers, Wapakoneta
 Angela Kaye Binger, Arcadia
 John Daniel Bingham, Broadview Heights
 Amy Lynn Bowen, Warren
 Debra Jean Boyer, Columbus
 Rhonda Kay Buckler, McDermott
 Kay Michelle Bush, Mansfield
 Theodore Harvey Bush, Columbus
 Patricia Elaine Bussard, Columbus
 Drew Marshall Cady, Lima
 Judy Lynne Chapmon, Columbus
 Paul Taft Cunningham, Columbus
 Benita Marie Cutarelli, Marion
 Kauwa K. Dan'ya, Bauchi, Nigeria
 Rozalind Gail Decker, Mansfield
 Richard R. Douglass, Worthington
 DeAnna Mae England, Reynoldsburg
 Veronica DeVanda Ervin, Columbus
 Dale Fredrick Evans, West Jefferson
 Charles Brian Foote, Mansfield
 Sara Louise Foster, Ashland
 Scott Allen Foster, Bridgeport
 Lori Lynn Fultz, Sidney
 John F. Gibson, Hamilton
 Kirsten Lee Goodwin, Westerville
 Julia Marie Green, Urbana
 Karen Kay Grothoue, Delphos
 Pamela Jean Grove, Columbus
 Rebecca Lynn Hall, Kettering
 Kathleen Elizabeth Havens, Columbus
 John Britton Hopper, Columbus
 Debra Gail Hosler, Orient
 Anna Denise Ingram, San Antonio, TX
 Peggy Lee Jack, Findlay
 Barbara Lee Jones, Richwood
 Paula Lee Kacere, Columbus
 Jane Ann Kantner, Columbus
 Joan Price Keir, Westerville
 Stefanie Sybil Klar, Beachwood
 Tammy D. Klocinski, Columbus
 Julie Ann Kluchar, Chagrin Falls
 Pamela Kaye Knight, Norton
 Julie Annette Knotts, Columbus
 Christopher John Kramer, Worthington
 Lori Beth Kraus, Willowick
 Carla Jean Kuhlman, Ottawa
 Karl Dean Lammers, Ottawa
 Kellie Elizabeth Lavelle, Dublin
 Linda Kay Lentz, Sunbury
 Sandra Jo Lieb, Columbus
 Gary Eugene Martin, Prospect
 Maureen Lynn Mausser, Chesterland
 Stephen West McCollum, Westerville
 Michael Christopher Melink, Loveland
 Paul David Meyer, Oak Harbor
 Diana Lynn Morgan, Quaker City
 Judith Marie Moro, Columbus
 Lorraine Marie Mulholland, Morrisville, PA
 Tena Elizabeth Noggle, Galion
 Ervin Jay Pavlofsky, Dayton
 Janice Pirro, Gahanna

Pamela Wilkison Radcliff, Columbus
 Carol Ann Rea, Mt. Vernon
 Scott Reisberg, Akron
 Karen Louise Rissmeyer, Columbus
 Mary Heckathorn Rossel, Upper Sandusky
 Kathryn Gayle Roth, Columbus
 Tamara J. Roush, Urbana
 Theresa Aileen Salem, Cincinnati
 Joyce Christina Schomaker, Cincinnati
 Sydney Sue Schwartz, Columbus
 Kathy Lynne Shaner, Columbus
 Elizabeth Ann Sheridan, Grove City
 Kathy Sue Shultz, Columbus
 Sherrill Edward Silvers, Anna
 Schuyler Bruce Smith, Mansfield
 Lori Ann Sotos, Columbus
 Roger Lee Spry, Columbus
 David R. Stevens, Williamsport
 Donald Calvin Strine, Shelby
 Jodi Lynne Strine, Shelby
 Christine Marie Strok, Columbus
 David James Swallie, Columbus
 Jeffrey Edward Teets, Columbus
 James M. Vulgamore, Columbus
 Sharon S. Wallace, Mansfield
 Lavona Lynn Weaver, Columbus
 Keith Andre Wesson, Columbus
 Vaden Henry West, Columbus
 Wanda Faye Williams, Columbus
 Kip Marshall Witche, Worthington

Bachelor of Art Education and Bachelor of Music Education degrees are offered jointly by the College of the Arts and the College of Education. Candidates are listed under the College of the Arts.

College of Engineering

Dean: Donald D. Glower

Bachelor of Science in Aeronautical and Astronautical Engineering

Jeffry K. Ritschel, Brooklyn

Bachelor of Science in Aviation

Barry Michael Crawford, Wadsworth
 Marcus Keith Tibbs, West Elkton
 Scott Michael van Ooyen, Shelby
 Joseph Scott Walters, Greenhills

Bachelor of Science in Ceramic Engineering

Eun Sung Park, Seoul, Korea

Bachelor of Science in Chemical Engineering

Denise Marie Davis, Columbus
Paul Joseph Erdy, Amherst
Kimberly Ann Franklin, Cincinnati
Susan Louise Lehman, Upper Sandusky
David Anthony Militello, Kettering
Anne Marie Takacs, Cuyahoga Falls
Robert Lawrence Tatterson, Galena
Jaime Arthur Velez, Bayamon, PR

Civil Engineer

Jesus Salvador Gonzalez Diaz, Valencia, Venezuela

Bachelor of Science in Civil Engineering

Mansor Abdul Shukor, Batu Pahat, Malaysia
Jeffrey Philip Anton, Broadview Heights
Wendy Sue Hutchinson, Kettering

Bachelor of Science in Computer and Information Science

Brian Gerard Alge, Norwalk
Curtis Oscar Brooks, Jr., Columbus
Chee Peng Chen, Petaling Jaya, Malaysia
Jack Lee Cox, Cincinnati
Bassem Fouad El-Zahabi, Tripoli, Lebanon
Wael Ramez Farhat, Niha El-Chouf, Lebanon
John Peter Fountas, Westwood, MA
Ty Arthur Jacobs, Fairfield
Tracy Lynne Runyon, Columbus
Susanne Marie Sharick, Champion
Maria Cecilia Tong-Chang, Lima, Peru
Sharon S. Yen, Fort Lee, NJ

Electrical Engineer

Darrell G. Cipriany, Westerville

Bachelor of Science in Electrical Engineering

Michael Alan Bridge, Columbus
Prakoon Chen, Bangkok, Thailand
Dirar Fayed Daaboul, Damascus, Syria
Ronald Louis Dilsavor, Hilliard
Thomas Reginald Doster, Charlotte, NC
Ibrahim Suleiman El-mosleh
Ronald Andrew Hackett, Walkersville, MD
David John Hermann, Fairborn
Michael Aaron Jaffe, Beachwood
David Henry Lohrey, Cleveland
Christopher Louis Mills, Olmsted Falls
Peter Munk, Columbus
Gregory Andrew Ricketts, Columbus

Darius Simon, Jakarta, Indonesia
John Christopher Sparhawk, Crownsville, MD
Michael Edward Stanitz, Cleveland
Toh Joo Jeffrey Tan, Singapore

Bachelor of Science in Engineering Physics

Ka W. Chung, England
Mark A. Selover, Shaker Heights

Bachelor of Science in Industrial and Systems Engineering

John Peter Bendekovic, Columbus
Rami Hani Ghandour, Beirut, Lebanon
Carolyn Elizabeth Hitchcock, Grove City
Nicolas Tumbelaka, Semarang, Indonesia
Randall Trent Winter, Upper Sandusky
David Fisher Ziels, Lancaster

Bachelor of Science in Mechanical Engineering

Brij Kumar Agarwal, New Philadelphia
Brian Jeffrey Atwater, Crete, IL
Daniel Glenn Berry, Cincinnati
Patrick Robert Davis, Stow
Carlo R. De La Mata, Talara, Peru
David Robert Gibson, Wintersville
Anders Peter Gisslen, Cincinnati
Cindy Sue Kaplan, Mayfield Heights
Sunitha Reddy Reddy Reddy, Pine Bluff, AR
John Robert Sech, Parma
Maureen Lynn Shanahan, Huber Heights
Michael F. Sicker, Canton
David Wayne Steward, Seven Mile
Steven Brent Swartzmiller, Altica
Tyler L. Terrell, Washington Court House
Raymond William Treudler, Seven Hills
Jennifer Ellen Trost, Columbus

Bachelor of Science in Metallurgical Engineering

Dana Marie Gard, Fairfield
Thomas George Kiss, Chesterland
David William Mayrer, Dayton
Yoolanda Ward, Columbus

Bachelor of Science in Surveying

Jeffrey L. Bateman, Moorestown, NJ

Bachelor of Science in Welding Engineering

Bruce Robert Hodges, Columbus

School of Architecture

Bachelor of Science in Architecture

Dana Mohamad Abdou, Beirut, Lebanon
J. Michael Asebrook, Columbus
Bassem Bitar, Damascus, Syria
Jay Walker Boone, Beavercreek
Craig Kennard Breedlove, Jeffersonville
David Wayne Bullock, Sylvania
Christopher Patrick Collins, Columbus
Nancy Jim Eftimoff, Reynoldsburg
Philip Edwin Herren, Xenia
Tara Lynne Mathena, Columbus
Thomas Russell McVey, Upper Arlington
John Michael Meyer, Steubenville
Jacqueline Diane Mogg, Swanton
Joseph Vincent Pax, Vandalia
Michael David Peterson, Akron
Steven Cary Rabin, Chicago, IL
Michael Allen Rose, Seven Hills
Normah Binti Saruji, Kuala Lumpur, Malaysia
Scott Thomas Wahtola, Worthington

Bachelor of Science in Landscape Architecture

John C. McFarland, Jr., Chagrin Falls

College of Home Economics

Dean: Lena Bailey

Bachelor of Science in Home Economics

Jane Ellen Brisk, Columbus
Julie Ann Burch, Mayfield Village
Linda T. Colelli, Fairmont, WV
Michelle Ann Cooper, Kettering
Elif Sara Erkmén, Springfield
Jenefer Louise Gee, Dublin
Bonnie Ruth Gertz, Columbus
Alison Ann Hall, Wheeling, WV
Amalia Maria Harris, Columbus
Ann Therese Herberger, Wellington
Mary Jo Hough, Delaware
Jane Griffith Huber, Columbus
Jeffrey Allen Katz, Mayfield Heights
Theresa Ann Kubal, Medina
Gina Marie Kuper, Middletown
Susan Elizabeth Laux, Columbus
Kathi Lynn Mandel, Toledo
Jennifer L. Marshall, Columbus
Ellen Katherine Martin, Worthington
Michelle McCaw, Chillicothe
Tracey Jo McDowell, Dayton
Molly Ann McKeown, Worthington
Melinda Carol Meisse, Mansfield
Paula Jean Muza, Struthers
Marlene Ann O'Brien, Oregon City, OR
Kristin Ann Peters, Valley City
Martha Lynn Reilly, Akron

Denise Kaye Robinson, Norwalk
 Karla Anne Rupp, Mansfield
 Kathryn Ann Schultz, Corfu, NY
 Paula Marie Thomas, Plain City
 Elizabeth Ann Visniski, Thousand
 Oaks, CA
 Bonnie Wagoner vonClausburg,
 Columbus
 Suzanne Marie Walker, Springfield
 Caryn Lynn Weiss, Columbus
 Julie Ann Weiss, Elyria
 Susan Elizabeth Weldon, Columbus
 Kathy J. Wilhelm, Portsmouth
 Deborah Sue Wolfson, Mayfield Heights
 Susan Eileen Wright, Columbus

Bachelor of Science in Hospitality Management

Elizabeth Andreou, Columbus
 Kimberley Ann Bourdow, Columbus
 Richard Thomas Cartmel, Akron
 Mark George Hontas, Mentor
 Keith Edward Kucler, Berea
 Maryjane Shields, Columbus
 Ronald Joseph Stenger, Mayfield Heights
 Timothy Howard Wolfe, Beaver creek

Bachelor of Science in Nutrition

Jennifer Leslie Ray, Athens

College of Medicine

Dean: Manuel Tzournis

Doctor of Medicine

David Lawrence Condon, Columbus
 B.S.

Karyn Rae Doddy, Cincinnati
 B.A. (Johns Hopkins University)

Martha Himes Hagaman, Columbus
 B.S.All'd.Hlth.Prof.

Michael Raymond Humphrey,
 St. Clairsville
 B.S. (Ohio Northern University)

Jon Theodore Preston, Greenfield
 B.S. (University of Cincinnati)

Jack Soong, North Royalton
 B.S.

Francesca D. Spencer, Detroit, MI
 B.A. (Towson State University);
 M.A.

School of Allied Medical Professions

Bachelor of Science in Allied Health Professions

Cathleen A. Barnes, Santa Barbara, CA
 Lisa Ann Camarata, Mayfield Heights
 David Allen Hermes, Port Clinton
 Cheryl Ann Hicks, New Philadelphia
 Karen Sparling Lewis, Athens
 Geraldine Ruth Morris, Detroit, MI
 Karen Marie Perko, Richfield
 Mark Edward Ramsey, St. Clairsville
 Lisa Massarelli Redden, Hamilton
 Saddy Elaine Rivera, Ponce, PR
 Michael Lee Stead, Dresden

Certificate of Nurse Anesthetist

Ann Ellen Fedasz, Sherrodsville
 B.S. (Walsh College)

Chris Steuerwald, Columbus
 B.S. (Virginia Commonwealth University)

Jon Martin Veith, Columbus
 B.S.Nurs.

College of Nursing

Dean: Carole A. Anderson

Bachelor of Science in Nursing

Noreen Kay Burris, Cambridge
 Susan Margaret Capuano, Columbus
 Theresa Leigh Casey, Columbus
 Carolann Cross, Chagrin Falls
 Margaret Doris Dee, Lima
 Shellenne Rene Garner, Findlay
 John Thomas Hoyer, Worthington
 Janice Carol Iven, Elida
 Elizabeth Ann Kinder, Cincinnati
 Lisa Michelle McCorkle, Columbus
 Susan Elizabeth Otto, Lima
 Jeannette Cohn Petten, Columbus
 Renee Philpot, Cleveland
 Paula Marie Ptacek, Sagamore Hills
 Beverly Ann Reynolds, Wooster
 Adriane Isabel Rodriguez, Cincinnati
 Erin Leigh Toepfer, Centerville

College of Pharmacy

Dean: Albert H. Soloway

Doctor of Pharmacy

Debra K. Gardner, Worthington
 Paul James Harton, Jr., Washington, PA
 Julie Lynn Ponting, Lodi

Bachelor of Science in Pharmacy

Craig Stephen Adie, Mentor
 Jerry Curtis Bailey, Lawrenceville, GA
 Bridget Ciamacco, Columbus
 Joanne Louise Cook, Findlay
 Diane Therese DePauw, North Olmsted
 Antoinette Nadine Dobbins, Celina
 John V. Farren, Brookville
 Kenneth Steven Field, Dublin
 Denise Hitomi Howell, Columbus
 Kathleen Rose Krupansky, Cleveland
 Scott Andrew Lust, Wellington
 Laura Anne Matchett, Akron
 Jennifer Kaye Morgan, Louisville
 Stephen Kam Shun Ng, Hong Kong
 Sik-On Raymond Or, Hong Kong
 Laurence Andrew Peji, Conneaut
 James Robert Reynolds, Orrville
 Hugues Victor Saint-Amand, Wooster
 Richard Michael Sanislow, Oberlin
 Carolyn Marie Saunders, Brecksville
 Mark Jeffrey Schirtzinger, Columbus
 Sarah Lynn Smith, Somerset
 Beryl Loraine Stoner, West Unity
 Steven Dwayne Strausbaugh, Chillicothe
 Dorie Ann Tablack, Campbell
 Ronald Francis Tkach, Strabane, PA
 Stephen Spencer Tonnison, Marion
 Victoria Ann Vince, Yorkville
 Deborah Denise Warfield, Springfield
 Victor Lee Wolfe, Warren

College of Social Work

Dean: Richard E. Boettcher

Bachelor of Science in Social Work

Karen Marie Callahan, Pickerington
 Erin Patrice West, Cleveland

Graduates with Honors

Criteria for graduating with honors are as follows:

With Distinction requires successful completion of a Senior Honors Thesis, oral examination, and graduation in the top 25% of the class.

With Honors in the Liberal Arts requires successful completion of the Arts and Sciences Honors Contract and graduation in the top 25% of the class.

Cum Laude designates those graduating in the top 10% of the class.

Summa Cum Laude designates those graduating in the top 3% of the class.

With Distinction in Mechanical Engineering

David Wayne Steward

With Honors in the Liberal Arts

Oliver Peter King-Smith
Kishor Kumar Patel
James Andrew Stewart

With Honors in the Liberal Arts and with Distinction in English

Karl James Gieseke

With Honors in the Liberal Arts and with Distinction in International Studies

Michael Raymond Chase

Cum Laude

Paula Ann Azar
Jeri Lynn Barnitz
John Peter Bendekovic
Angela Kaye Binger
Jeffery Bruce Boecker
Amy Terese Bonfiglio
Scott James Boylan
Yong Sok Choe
Jack Lee Cox
Denise Marie Davis
W. Russell Denton
Nancy Jim Eftimoff
Dwayne L. Fields
Sandra Ann Fravel
Paul Jonathan Gossard
Elizabeth Krupp Griebeling
Joel Guggenheimer
Ronald Andrew Hackett
Rebecca Lynn Hall
Kathryn Ellen Harvey
Heidi Lynn Hellstrom
Wendy Sue Hutchinson
Dennis Michael Kane
Jane Ann Kantner
Tammy D. Klocinski
Thomas Joseph Klug
Kimberly Renee Krumanaker
Irene Oi-Chun Ku
Carla Jean Kuhlman
Steven Howard Lencke
Linda Kay Lentz
Marci Joy Lipner
Norman W. Litts, Jr.
Mark Joseph Matsushima
Diana Lynn Morgan
John Joseph Nemcek
Sik-On Raymond Or
Debra Lee Pedersen
Paula Marie Ptacek
Thomas John Rinderle

Brian Thomas Sating
Ryan Cabot Shaeffer
Darius Simon
Joan Marie Stammen
Vivian Celeste Terhune
Julie Ann Weiss
Ginger Vass Yost
Elizabeth Ann Zimmerman

Cum Laude with Distinction in Communication

James Robert Reske

Cum Laude with Distinction in Dairy Science

Carl Francis Will

Cum Laude with Distinction in English

Katherine Johnson Dyer

Cum Laude with Distinction in Mechanical Engineering

Steven Brent Swartzmiller

Cum Laude with Distinction in Zoology

Roberta Adams Smith

Cum Laude with Honors in the Liberal Arts

Eric Bogardus Stuart

Summa Cum Laude

Nancy Ellen Bonnell-Kangas
Jami Dawn Bray
Prakoon Chen
Randolph R. Conone
Helena B. Crevonis
Christina Marie Curran
Ann Marie Diederich
Christine Renee Jameson
William Charles Mulligan
Peter Munk
William Anthony Peoples
Christina Jane Price
Pamela Wilkison Radcliff
Laura Allison Ray
Kathryn Gayle Roth
Johanna Kay Stevens

Summa Cum Laude with Distinction in Family Relations and Human Development

Bonnie Wagoner vonClausburg

Summa Cum Laude with Honors in the Liberal Arts

Deborah Lynn McCormick

Summa Cum Laude with Honors in the Liberal Arts and with Distinction in History

Keith Allen Zahniser

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THE OHIO STATE UNIVERSITY
OFFICIAL PROCEEDINGS OF THE
ONE THOUSAND TWO HUNDRED AND THIRTY-THIRD MEETING
OF THE BOARD OF TRUSTEES

Columbus, Ohio, September 3 and 4, 1987

The Board of Trustees met at its regular monthly meeting on Thursday, September 3, and Friday, September 4, 1987, at The Ohio State University Fawcett Center for Tomorrow, Columbus, Ohio, pursuant to adjournment.

*	*	*
Minutes of the last meeting were approved.		
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September 3 and 4, 1987 meeting, Board of Trustees

The Vice Chairman, Mr. Immke, called the meeting of the Board of Trustees to order on September 3, 1987, at 6:30 p.m. He requested the Secretary to call the roll. The meeting recessed into Executive Session for the purpose of considering legal issues and personnel-related matters.

Present: Leonard J. Immke, Vice Chairman, John W. Berry, Shirley D. Bowser, Hamilton J. Teaford, John J. Barone, Deborah E. Casto, John W. Kessler, and Milton A. Wolf.

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Mr. Immke reconvened the meeting on September 4, 1987, at 9:35 a.m.

Present: Leonard J. Immke, Vice Chairman, John W. Berry, Shirley D. Bowser, Hamilton J. Teaford, John J. Barone, Deborah E. Casto, John W. Kessler, and Milton A. Wolf.

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Mr. Immke:

We will go immediately to Mr. Frey, Vice President and General Manager of WTVN Radio, Perry --

Mr. Perry Frey:

My name is Perry Frey, and as Mr. Immke said, I am Vice President and General Manager of WTVN Radio. I have been with Taft in Columbus for fourteen years and eight of those years with WTVN. Dr. Jennings, I would like to thank you for permitting us to come before the Board today; Madison Scott, I would like to thank you for helping us arrange this.

With me today is Carl Wagner. Carl is President of Taft Radio and Cable Group; Carl is from our corporate offices in Cincinnati. Also present is John Potter -- John is our Sales Manager at WTVN Radio, he is our past Program Director and he has been Director and Producer of Ohio State football and basketball for fourteen years. Today we are also represented by counsel, Dave Johnson. Dave is with the law firm of Taft, Stettinius & Hollister.

I trust you have all received the documents we prepared for you. Enclosed in your packages is my letter to each of you outlining the points we want to make today, along with copies of the two competing bid packages, also, our letter to President Jennings dated May 8, 1987, which outlines errors in the implementation of the bid process, and a letter dated July 21, 1987, from Gordon Young, former Executive Vice President of Proctor and Gamble, now an independent media consultant and advertising expert.

That brings us to why we're here today. Nine months ago we were excited to learn that the University was going to award radio broadcast rights to Buckeye football and basketball games for the next five seasons on the basis of competitive bidding. That meant to us the highest and best bidder would be awarded the rights. We at WTVN Radio worked diligently to prepare the best bid package we could. A package which addressed all ten

September 3 and 4, 1987 meeting, Board of Trustees

Mr. Frey (contd):

selection criteria, as set forth in the University's bid specifications. A package which was financially attractive to the University, a package which responded directly to all the written detailed bid specifications, a package which responded directly to the instructions that we received at a pre-bid meeting called by the University, and a package that was supported by facts, including an independent market study which clearly established our superior position in this market.

As it turned out, we submitted the only bid that met the bid specifications addressing the University's intent to establish its own network. And, we were the only vendor that submitted alternate proposals as requested on page 1 of the Radio Broadcast Proposal Specifications. As it turned out, we submitted the highest bid -- that is, the bid promising the most total compensation to the University, the most important of the ten selection criteria specifications. And here is where it gets interesting. John, will you show the exhibit.

I was told by Rick Bay, our bid was higher. I will show you an exhibit that clearly demonstrates that someone in this University or its Athletic Department grossly distorted the compensation portion of our bid and presented what you see on top of this exhibit to the Evaluation Committee. Just ignore the bottom for a moment, please. Somehow what got before the Evaluation Committee was that WTVN's bid was \$341,000, WBNS's was \$951,000. I don't know how that happened. The actual compensation is what you see on the bottom. Can everyone see that? Our figure of \$1.8 million is a very conservative figure. We have deducted \$250,000 from that figure for satellite fees. WBNS's is \$1.1 million, an 86% difference. Our \$1.8 million is a very conservative figure. There is cash of \$976,000 in that, there are affiliate fees of \$287,000 in that, and that is also included in WBNS's, there is in-kind compensation of \$887,000 -- that would really total \$2,150,000. We deducted the \$250,000 in satellite fees and rounded it down to have a very conservative figure -- it came in at \$1,863,100.

As you can see from the bottom of the exhibit the real value comparison on the two bids is quite different, but the Evaluation Committee did not see that. That is quite a difference. Why would the University ever walk away from this. I can't understand -- but let me go on, it gets more interesting.

For the second highest rated evaluation criteria we submitted the only bid that included plans to promote the University as an institution in all its academic and sports programs and not merely our own broadcasts. I won't take time to mention every one of them, but every one of WTVN's promises in this section promoted the University. Our competitor's bid offers not a single plan to promote the University, not one. It merely speaks of stadium novelty items and advertising and promotional materials aimed at promoting its own broadcasts, not this institution. Yet, the Evaluation Committee members rated our bids equal in this area. That is unbelievable nonsense, but let's go on.

September 3 and 4, 1987 meeting, Board of Trustees

Mr. Frey (contd):

We submitted the only bid that provides the University dynamic reach, not just football Saturdays, but all week. We have another exhibit. During the week we have an audience of 266,000 people, compared to WBNS's 79,000. If you were to leave here and go triple the size of your stadium, we fill that every day of the week, Monday through Friday; WBNS can hardly fill it one time. And, of course, this translates into advertising dollars. When the University, or we, sell time -- but make it specific to the University, when the University sells network sponsors advertising time, the University will generate higher revenues with WTVN as its flagship station. This is what takes place every day on the streets of Columbus. We have an average rate of \$90.00, against an average rate of \$25.00. Furthermore, we submitted the only bid that offered this University close association with a dominant station in this market and a sports network of unbeatable reach that included WKRC in Cincinnati, a dominant-rated station, the second largest radio market in this State and advertisers pay for that.

In conclusion, we submitted the highest and best bid and we lost. That's why we are here, to tell you about it and to see if it doesn't trouble someone other than us. That the University set ground rules for competitive bidding, rules designed to maximize revenues and opportunities for the University, then, unfairly and without notice, with a hidden agenda at which we can only guess, the University or its Athletic Department decided to change, ignore, or work around their own rules in order to select the losing bidder -- WBNS. This decision utterly fails to maximize revenues and opportunities for the University. It makes no economic or marketing sense whatsoever.

What should this Board do? This Board should do what's right, and that is, require that the University honor its own competitive bidding process and award the contract rights to the highest and best bidder -- that is clearly WTVN Radio. This will insure that a valuable public asset, the broadcast rights to the University's two major sports programs, is sold and marketed prudently and properly in a business-like fashion, in a way that most benefits the University today and for years to come.

You may be sitting there imagining the practical, and perhaps the political problems of taking this action. Therefore, you might want to consider for the upcoming season only, that WTVN be permitted to carry the football and basketball games along with WBNS. To insure that no loss of revenue occurs to the University, WTVN will pay its fair share of compensation to the University for these nonexclusive rights. Following this football and basketball season there are many solutions to this problem, and we will be happy to work with you on them. You are our last resort in the University. We admit that what we are asking you might be a hard thing for you to do, but as Trustees of this University, it is the right thing to do.

Again, I want to thank you, on behalf of all of us, for your time and cooperation in coming before this meeting. If anyone has questions, I'd be glad to try and answer them.

September 3 and 4, 1987 meeting, Board of Trustees

Mr. Immke:

Anyone have any questions? Thank you, Mr. Frey.

Mr. Frey:

Thank you, Mr. Immke, thank you, President Jennings.

Mr. Immke:

Call on Dr. Jennings --

President Jennings:

Thank you, Mr. Chairman. Thank you, Perry. As you know, the concerns that you have expressed today were brought to our attention by you and your counsel last May. And due to the nature of those allegations that were made, the University retained the services of Mr. Roderick Daane of Ann Arbor, Michigan, as an independent consultant to thoroughly investigate the process by which radio broadcasting rights to The Ohio State University football and basketball games were awarded.

After reviewing the documents, discussing the matter with members of the Selection Committee, Mr. Daane concluded that the process for the award of radio broadcasting rights was appropriate. The decision was made in a careful and deliberate manner. And I should also point out that the University established a competitive process for the purpose of achieving a fair decision, despite the fact that we were not required by law to bid this contract. Mr. Chairman, in my view, there is no reason to revise this decision or to further consider any other proposals.

Mr. Immke:

Thank you, Mr. President. Thank you, Mr. Frey.

Mr. Frey:

Thank you. Can we make one comment please?

Mr. Immke:

Sure.

Mr. Frey:

Dave Johnson, please --

Mr. Johnson:

Excuse me, Mr. Chairman, will the Board be considering an appropriate action -- we have heard from Mr. Frey, and President Jennings has made his statement. Is the Board going to consider this in some sort of Executive Session, or when will the decision on any action or nonaction be made?

September 3 and 4, 1987 meeting, Board of Trustees

Mr. Teaford:

We wouldn't be allowed to consider it an Executive Session.

Mr. Immke:

We wouldn't be able to do that. We have all received all the documentation on all of the reports and I believe you have had your reply.

Mr. Johnson:

President Jennings's reply is the reply of the Board of Trustees?

President Jennings:

It is my recommendation to the Board.

Mr. Johnson:

Your recommendation to the Board. Our question simply is when will the Board act on your recommendation?

President Jennings:

I think they acted by not overturning my recommendation.

Mr. Johnson:

So, the administrative action of this Board of Trustees has now been completed on our request?

President Jennings:

I would think so.

Mr. Johnson:

Thank you.

Mr. Frey:

Are we free to go?

President Jennings:

Yes, you're free to go.

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Mr. Immke:

Mrs. Bowser, I would like to call on you to give your report.

Mrs. Bowser:

As you know, I am one of the two members of the Board of Trustees on the University Hospitals Board. Mr. Immke is my co-member and

September 3 and 4, 1987 meeting, Board of Trustees

Mrs. Bowser: (contd)

since he is serving in capacity as Chairman today, I would like to report on The Ohio State University Hospitals Board.

I am going to talk about three issues, one is the Strategic Planning Process. You may remember when Charles Lazarus was Chairman of the Hospitals Board and Jack Havens was our Chairman, there was some discussion about a need for a strategic plan that would include the College of Medicine, the Medical Staff and the University Hospitals. That had sort of a slow start, but it has picked up steam and I'd like to report on that particular process.

The Hospitals Board is also going through a self-evaluation process right now. The Chairman of the Board, Mr. Vorys, had appointed Pete Klisares as Chairman, and I serve on that committee, too, and I want to give you a preliminary report on the self-evaluation. And finally, I will have some comments to make on the Financial Summary ending June 30, 1987.

Strategic Planning Process

The strategic planning consulting firm of Hamilton/Kurt Salmon and Associates is presently conducting five strategic issues discussion sessions with faculty members of The Ohio State University College of Medicine in order to solicit feedback from our medical faculty on potential future directions for the medical center relative to these four issues: 1) educational mission; 2) organization and role; 3) competitive position; and 4) modes of delivery.

During the month of September and early October, University Hospitals Administration and the University Hospitals Board will also be given the opportunity to participate in a similar process of providing their respective insights into future options.

Following the completion of this phase in the planning process, the Strategic Planning Task Force, appointed by President Jennings last year, will reconvene to begin indepth evaluation of the final draft of the plan. And that will be presented to the University Hospitals Board and finally, to the University Board of Trustees for consideration and support later this fall.

Up to this point in time, the Hospitals' consultants have conducted extensive environmental analyses of the Central Ohio marketplace and indepth internal assessments of both the College of Medicine and University Hospitals in terms of historical operations and the strengths and weaknesses of each component of the medical center. The level of analysis lead to the development of a set of major strategic issues facing the organization demanding future resolution. Two strategic planning retreats have been held to begin discussion around these issues and options for the future. In attendance have been University Hospitals Board members, College of Medicine Clinical Chairpersons and Division Chiefs, University Hospitals Administration, basic sciences faculty directors, and College of Medicine Administration. Current or upcoming meetings are intended to delve into greater depth and discussion around future alternatives for the medical center.

September 3 and 4, 1987 meeting, Board of Trustees

Mrs. Bowser: (contd)

Just as a thought in passing, there have been some very good discussions and some good things have come out. Nothing is finalized at this point, but I think this is a plan that once it is developed, it will certainly be one that we can use and plan from.

Board Self-Evaluation

Over the past four months the Hospitals Board has undertaken a major review of its own performance in the last year. It further established a task force to recommend changes in the Hospitals' committee structure as well as format and kinds of information to be reviewed at future meetings.

The intent of such changes will be to help the Board focus not only on the day-to-day issues, but on strategic planning issues revolving around the Hospitals' teaching and research mission. It is anticipated that the task force recommendations will be considered by the full Board in September for initial implementation beginning October of this year, pending review by the President and the Board of Trustees. It will be brought to you sometime this fall.

Financial Summary Ending June 30, 1987

University Hospitals ended the year with admissions equal to budget (28,664 admissions) and patient days exceeding budget by 1.4%. The average daily census for the year was 653 patients versus 643 patients for the prior year. For the year Clinic visits exceeded budget by 6.9% and emergency visits exceeded budget by 4.6%. The Hospitals' net income was \$1,338,000 versus \$1,643,000 for the prior year.

Days in patient accounts receivable at June 30, 1987, were 100 days versus 105 days the prior year (the majority was due to delays in payment by Medicare and the State Medicaid program). Accounts receivable have decreased approximately 5 million dollars the last three months resulting in a cash balance of \$8,898,000 at June 30, 1987.

The Board has recently had the opportunity to review the first draft of financial projections for the Cancer Hospital and Research Institute and a three year financial projection for all the Hospitals. Additional review will be given to these items in the months ahead by the Finance Committee of the Hospitals Board.

This Board is a really hard working Board, lots of meetings and lots of time has been spent, this year particularly I think, with the Cancer Hospital coming on board in the near future. If there are any questions, either Mr. Immke or Mr. Covert, who is in the audience, or I would be happy to answer them if we can.

Mr. Immke:

Any questions? Any questions of Mr. Covert?

September 3 and 4, 1987 meeting, Board of Trustees

Mrs. Bowser:

Was it the intention that we submit this report?

Mr. Scott:

Yes, Shirley, that will be in the minutes.

President Jennings:

That is an outstanding report, Mrs. Bowser. I am particularly pleased with the planning that has gone on by the Board, by Mike's staff. As we all know, operations of hospitals, particularly university hospitals, are changing dramatically and this hospital, adding on top of that, is increasing its research activity in the magnitude of 20% a year. This is a hospital that is becoming a very different institution than it has been in times gone by. The planning that is going on now, I think, is extraordinarily important. The planning is being done well, because it is being done so flexibly. Recognizing that none of us can predict the future in any of this and recognizing that the changes that we have seen in the last several years probably are going to be small compared to the changes that we will see in the next several years -- not just with reimbursement, but the characteristics of care, the outpatient activity, and the very high-level tertiary care that is being delivered at that hospital. I think now with 19 heart transplants, we have one of the, if not the, best record in the nation in terms of survival rate. The bone marrow transplant, the MRI activity, and with the new heads in Surgery and OB-GYN, and Internal Medicine, those very large departments are transforming the characteristics of this hospital. I would urge all of to look at this very carefully, because it is a serious issue and these planning activities are going to be done very professionally and very well.

Mrs. Bowser:

Well, I think that once the strategic plan is formulated every member of the Board of Trustees will receive a copy of that, won't they Mike? I think it would be well worth your time to look through it. It's been painful and it's taken some time to really confront these issues and talk about them and do the best, as the President has said, to do the best we can to solve them for the future.

President Jennings:

One of the things that I think I like best and recognize best is that whenever we get talking about the Hospitals, the Hospitals Board is the first to remind us that this is first and foremost an academic institution and that our academic objectives have to be paramount on our minds. And that does make it very different and the fundamental recognition of that is extraordinarily important, because we are changing faster than other hospitals are because of the academic mission.

September 3 and 4, 1987 meeting, Board of Trustees

Mr. Kessler:

I think the Hospitals is certainly a big asset for the University, and for Columbus, and the region around us. I don't have any idea how to relate how it is doing comparably. Do we have a peer group? When we talk about things, we do have peer groups, we compare ourselves with colleges in the Big 10. I think it would be helpful, for me anyway, to see how we would compare to "our peer group in University Hospitals" in different areas.

Mrs. Bowser:

That is interesting, because the Hospitals Board has been talking about similar kinds of comparisons. It is hard, because you can't compare yourself to a Riverside, or Mount Carmel or Saint Anthony, because it is not the same mission. I am sure that we are going to be getting into that a little bit more don't you think, Mike, as we go along?

Mr. Covert:

Shirley, there is a group of hospitals and data that we have been using, at least administratively, over the last 2 - 2 1/2 years since I've been here, which is a peer group of what I'll refer to as comparable kinds of institutions, but they may not be exact. Included in that would be a number of the other Big 10 hospitals, Duke University Hospital, University of North Carolina, Vanderbilt, Barnes Hospital in St. Louis associated with Washington University, Stanford. There is a group of those that we can compare to in terms of not just financial kinds of data, but other kinds of data and we have been approaching them. As a matter of fact, even in the last week we have been meeting with both people from the University of Cincinnati and Cleveland Clinic as ways for us to compare that data so that it is useful for us, particularly in Ohio to give us a reference point.

President Jennings:

I think it is instructive when Mike goes through that and yes some of the Big 10, but in many ways our hospital is more comparable to a hospital facility at a private university, because so many of the Big 10 institutions are anywhere from 40% - 70% funded by their state. Whereas our hospital has, other than facilities, no state funding associated with it at all. The hospital where I came from, the University of Iowa, roughly 70% of their costs were picked up by the State of Iowa.

Mrs. Bowser:

And it's the one tertiary care center for the whole state and that isn't true here. So the competition, the whole --

Mr. Kessler:

Well, I think a peer group is one that you aspire to be --

September 3 and 4, 1987 meeting, Board of Trustees

President Jennings:

But it is more inclined towards the private school and I mention that because I sometimes am accused of railing against the private schools, but in this context we are typically more similar to a Vanderbilt or a Stanford or a Northwestern --

Mr. Kessler:

Well, I think it would be helpful.

President Jennings:

Good, that is an important part.

Mr. Immke:

Thank you, Shirley, for your outstanding report. Thank you, Michael, for being here and available. You have one more comment, Shirley?

Mrs. Bowser:

Yes, as Chairman of the Standing Committee on Agricultural Affairs, I would like to ballyhoo the Farm Science Review, which will occur before we have another meeting. That's the fourth week in September, I think it is the 22, 23, and 24. Vice President Hutchinson is in Vienna, serving on a different committee, so he is not here to tell you about it, but it is the 25th Anniversary of the Farm Science Review. And because of the downturn in economic factors in the agricultural world, there was some thought that maybe they wouldn't have as many exhibitors this year, but they have as many, if not more than they ever had. So they are expecting a really fine Farm Science Review. I think we haven't had any rain south of Interstate 70 and it will probably rain every day that week, but barring the weather -- and that won't bother the farmers, they'll just put on their boots. It might bother the rest of you.

President Jennings:

Are we going to do some combining of beans?

Mrs. Bowser:

Yes, we are going to do some combining of beans there.

Mr. Kessler:

Why did you look at Mr. Berry, when you said that?

Mrs. Bowser:

He is a farmer, he's coming.

Mr. Berry:

I'm a farmer.

September 3 and 4, 1987 meeting, Board of Trustees

Mr. Teaforde:

He's the other farmer.

Mrs. Bowser:

Sure, and we're going to show some combining of beans, as the President said. But anyway, if you are available that day, I am sure you will be contacted and invited personally, and it is a very nice opportunity to see agriculture, a real showcase of agriculture. I just wanted to make that comment.

Mr. Teaforde:

And as a total city boy, I would like to indicate that I have been there a couple of times, and it is well worth the visit. It is very interesting and a lot of fun.

Mrs. Bowser:

And agriculture is Ohio's number one industry.

Mr. Barone:

And if I may add, according to the Today program this morning, they talked about the agriculture industry this year. I think it was second in the number of billions that agriculture brings into this country in export. They ended up by saying, "who can say that agriculture is a small business and that the prices are not exorbitant." I thought you --

Mrs. Bowser:

Thank you, John, I appreciate all these good comments.

President Jennings:

In all seriousness, Fred will say that agriculture and food production is 22% of the gross state product of the State of Ohio. Food production, as well, and food distribution, but food as an industry in Ohio is 22% of our gross state product, which is --

Mrs. Bowser:

No mean thing.

Mr. Immke:

We have a lot of big users! Thank you, Shirley. Dr. Jennings, will you present your agenda.

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September 3 and 4, 1987 meeting, Board of Trustees

**CHANGE "THE DR. MARS G. FONTANA ENDOWMENT FUND" TO "THE
DR. MARS G. FONTANA PROFESSORSHIP IN METALLURGICAL ENGINEERING"**

Resolution No. 88-17

Synopsis: Changing "The Dr. Mars G. Fontana Endowment Fund" to "The Dr. Mars G. Fontana Professorship in Metallurgical Engineering" is proposed.

WHEREAS in accordance with the guidelines previously established by this Board, "The Dr. Mars G. Fontana Endowment Fund" was established on May 1, 1981; and

WHEREAS all gifts are to be invested in the University's Permanent Endowment Fund, under the rules and regulations adopted by the Board of Trustees of The Ohio State University, with the right to invest and reinvest as occasion dictates; and

WHEREAS at the time of the establishment of the endowed fund it was agreed that the fund be redesignated The Dr. Mars G. Fontana Professorship in Metallurgical Engineering when the level of funding reaches \$250,000; and

WHEREAS the level of funding has now reached the level required through unexpended earnings on the original investment:

NOW THEREFORE

BE IT RESOLVED, That The Dr. Mars G. Fontana Endowment Fund be changed to The Dr. Mars G. Fontana Professorship in Metallurgical Engineering. In keeping with the provisions of the original endowed fund, 80% of the income is to be used for the professorship; the recipient shall at no time be a department chairperson, dean or person in a comparable administrative position, past or present; the remaining 20% of the annual income is to be added to the endowment fund principal; and

BE IT FURTHER RESOLVED, That should the need for this fund cease to exist or so diminish as to provide insufficient funds to continue the endowed professorship, then the income is to be used as determined by the Board of Trustees to provide scholarships primarily for qualified and needy students in the Department of Metallurgical Engineering. Recipients are to be determined by the appropriate administrative official directly responsible for the College of Engineering and the Department of Metallurgical Engineering.

Upon motion of Mr. Barone, seconded by Mr. Teaford, the Board of Trustees adopted the foregoing resolution by unanimous voice vote.

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PERSONNEL ACTIONS

Resolution No. 88-18

RESOLVED, That the personnel actions as recorded in the Personnel Budget Records of the University since the July 10, 1987 meeting of the Board, including the following Change in Title, Appointments, Appointment of Chairpersons of Department and Division, Reappointment of Chairpersons of

September 3 and 4, 1987 meeting, Board of Trustees

PERSONNEL ACTIONS (contd)

Departments and Directors of Center and Institute, Leaves of Absence Without Salary, Leaves of Absence Without Salary--Continuation, Professional Improvement Leaves, Professional Improvement Leave--Change of Dates, Promotions/Tenure, and Emeritus Titles as detailed in the University Budget be approved.

Change in Title

Name: NANCY M. RUDD
Title: Secretary of the University Senate/Professor
Office/Departments: Academic Affairs/Family Resource Management and Home Economics (OARDC)
Effective: July 1, 1987*
Salary: \$58,872.00
Present Position: Professor, Departments of Family Resource Management and Home Economics (OARDC)

Appointments

Name: ROBERT A. RAPP
Title: Professor (Mars G. Fontana Professorship of Metallurgical Engineering)
Department: Metallurgical Engineering
Effective: October 1, 1987 (9-month appointment)
Salary: \$80,400.00
Present Position: Professor, Department of Metallurgical Engineering

Name: FRANK W. SCHWARTZ
Title: Professor (Ohio Eminent Scholar in Hydrogeology)
Department: Geology and Mineralogy
Effective: October 1, 1988 (9-month appointment)
Salary: \$87,000.00
Present Position: Professor, Department of Geology, University of Alberta

Name: JOHN W. WILKINS
Title: Professor (Ohio Eminent Scholar in Physics)
Department: Physics
Effective: April 1, 1988 (9-month appointment)
Salary: \$90,000.00
Present Position: Professor, Department of Physics, Cornell University

*12-month appointment, unless otherwise specified.

Appointment of Chairpersons of Department and Division

August 1, 1987 through June 30, 1991

Division of Agricultural Mechanics Technology Allen P. Zimmerman

October 1, 1987 through September 30, 1991

German

Gisela M. Vitt

September 3 and 4, 1987 meeting, Board of Trustees

PERSONNEL ACTIONS (contd)

Reappointment of Chairpersons of Departments and Directors of Center and Institute

July 1, 1987 through June 30, 1988

Melton Center for Jewish Studies

Marc L. Raphael

July 1, 1987 through June 30, 1991

Agricultural Technical Institute
Human Nutrition and Food Management
Neurology

Dan D. Garrison
Wayne A. Johnson
George W. Paulson

Leaves of Absence Without Salary

JON S. CUNNINGHAM, Professor, Academic Faculty of Accounting and Management Information Systems and Department of Economics, effective Autumn Quarter 1987, Winter Quarter and Spring Quarter 1988, to serve as Director of Research and Development at the Advanced Information Technology Research Center.

R. WILLIAM LIDDLE, Professor, Department of Political Science, effective Spring Quarter 1987, to continue his work in Indonesia.

JOSEPH H. LYNCH, Professor, Department of History, effective Autumn Quarter 1987 and Winter Quarter 1988, to accept an NEH Fellowship.

CLAIRE C. ROBERTSON, Associate Professor, Department of History and Center for Women's Studies, effective Autumn Quarter 1987, Winter Quarter and Spring Quarter 1988, to pursue research in Kenya under a Fulbright-Hays Training Grant for Faculty Research Abroad.

JERRY G. THURSBY, Associate Professor, Department of Economics, effective Autumn Quarter 1987, Winter Quarter and Spring Quarter 1988, for personal reasons.

MARIE S. THURSBY, Associate Professor, Department of Economics, effective Autumn Quarter 1987, Winter Quarter and Spring Quarter 1988, for personal reasons.

JAMES N. BODURTHA, Assistant Professor, Academic Faculty of Finance, effective Autumn Quarter 1987, Winter Quarter and Spring Quarter 1988, to accept a Visiting Professorship at the University of Michigan.

WAI CHAN, Assistant Professor, Department of Statistics, effective Autumn Quarter 1987, Winter Quarter and Spring Quarter 1988, to accept a position at Digital Equipment Corporation.

DANIEL L. COX, Assistant Professor, Department of Physics, effective Autumn Quarter 1987, to work on his research program.

KRISTINE A. DUGAS, Assistant Professor, Department of English and Center for Women's Studies, effective Autumn Quarter 1987, Winter Quarter and Spring Quarter 1988, for personal reasons.

September 3 and 4, 1987 meeting, Board of Trustees

PERSONNEL ACTIONS (contd)

Leaves of Absence Without Salary (contd)

DAVID FAIRLEY, Assistant Professor, Department of Statistics, effective Autumn Quarter 1987, Winter Quarter and Spring Quarter 1988, to pursue research interests.

EMIL VRABIE, Instructor, Department of Slavic and East European Languages and Literatures, effective Autumn Quarter 1987, Winter Quarter and Spring Quarter 1988, to accept a Visiting Lectureship at the University of Virginia.

MARCIA A. CAROTHERS, Clinical Instructor, Department of Veterinary Clinical Sciences, effective July 1, 1987, through December 31, 1987, to conduct an independent research project.

Leaves of Absence Without Salary--Continuation

NANCY S. ERICKSON, Professor, College of Law, effective Autumn Semester 1987 and Spring Semester 1988, for professional and personal reasons.

RICHARD M. CANTOR, Assistant Professor, Department of Economics, effective Autumn Quarter 1987, Winter Quarter and Spring Quarter 1988, to conduct research in the Domestic Policy Division of the New York Federal Reserve Bank.

Professional Improvement Leaves

JAMES W. COLLINSON, Professor, Department of Geology and Mineralogy, effective Winter Quarter and Spring Quarter 1988.

NATHAN S. FECHHEIMER, Professor, Department of Dairy Science, effective March 28, 1988, through August 31, 1988.

JAMES E. HARF, Professor, Department of Political Science, effective Winter Quarter, Spring Quarter and Autumn Quarter 1988.

ELLEN HOCK, Professor, Department of Family Relations and Human Development, effective January 1, 1988, through June 30, 1988.

DAVID HOTHERSALL, Professor, Department of Psychology, effective Winter Quarter and Spring Quarter 1988.

STANLEY K. LAUGHLIN, JR., Professor, College of Law, effective Spring Semester 1988.

AARON J. MILLER, Professor, Department of Educational Policy and Leadership, effective Winter Quarter and Spring Quarter 1988.

PAUL C. NUTT, Professor, Division of Hospital and Health Services Administration, effective January 1, 1988, through June 19, 1988.

THEODORE D. SOKOLOSKI, Professor, College of Pharmacy, effective January 4, 1988, through December 31, 1988.

BRUCE E. BURSTEN, Associate Professor, Department of Chemistry, effective Winter Quarter and Spring Quarter 1988.

September 3 and 4, 1987 meeting, Board of Trustees

PERSONNEL ACTIONS (contd)

Professional Improvement Leaves (contd)

DAVID BUTLER, Associate Professor, School of Music, effective Winter Quarter and Spring Quarter 1988.

MARGRET R. PIERSON, Associate Professor, Department of Dance, effective Winter Quarter and Spring Quarter 1988.

Professional Improvement Leave--Change of Dates

GOLDIE SHABAD, Associate Professor, Department of Political Science, change leave from Autumn Quarter 1987, Winter Quarter and Spring Quarter 1988, to Autumn Quarter 1987 and Winter Quarter 1988.

Emeritus Titles

THOMAS A. WILLKE, Office of Academic Affairs and Department of Statistics, with the title Dean for Undergraduate Studies for Arts and Sciences and Professor Emeritus, effective July 1, 1987.

EDWARD D. ALLEN, Department of Educational Theory and Practice, with the title Professor Emeritus, effective September 1, 1987.

JAMES K. BURT, Department of Veterinary Clinical Sciences, with the title Professor Emeritus, effective August 1, 1987.

EUGENE CHING, Department of East Asian Languages and Literatures, with the title Professor Emeritus, effective July 1, 1987.

ROBERT F. CROSS, Department of Veterinary Preventive Medicine, with the title Professor Emeritus, effective September 1, 1987.

FREDERICK R. CYPHERT, Department of Educational Theory and Practice, with the title Professor Emeritus, effective August 1, 1987.

JAMES R. GAINES, Department of Physics, with the title Professor Emeritus, effective September 1, 1987.

WALTER R. HARVEY, Department of Dairy Science, with the title Professor Emeritus, effective September 1, 1987.

FLOYD L. HERUM, Department of Agricultural Engineering, with the title Professor Emeritus, effective October 1, 1987.

RUTH M. KESSLER, College of Law, with the title Professor Emeritus, effective July 1, 1987.

ILSE LEHISTE, Department of Linguistics, with the title Professor Emeritus, effective July 1, 1987.

MILES K. MCEL RATH, Department of East Asian Languages and Literatures, with the title Professor Emeritus, effective July 1, 1987.

GORDON L. NELSON, Department of Agricultural Engineering, with the title Professor Emeritus, effective October 1, 1987.

September 3 and 4, 1987 meeting, Board of Trustees

PERSONNEL ACTIONS (contd)

Emeritus Titles (contd)

GORDON W. POWELL, Department of Metallurgical Engineering, with the title Professor Emeritus, effective July 1, 1987.

DONALD P. SANDERS, Department of Educational Policy and Leadership, with the title Professor Emeritus, effective September 1, 1987.

LEON I. TWAROG, Department of Slavic and East European Languages and Literatures, with the title Professor Emeritus, effective July 1, 1987.

ROBERT H. MAGNUSON, Department of Ophthalmology, with the title Clinical Professor Emeritus, effective July 1, 1987.

EDWARD COATES, School of Health, Physical Education and Recreation, with the title Associate Professor Emeritus, effective August 1, 1987.

DARLEEN LAMBERT, Cooperative Extension Service, with the title Associate Professor Emeritus, effective September 1, 1987.

WILLIE F. LONGSHORE, School of Architecture - Administration, with the title Associate Professor Emeritus, effective September 1, 1987.

HAROLD SCHNEIDERMAN, College of Social Work, with the title Associate Professor Emeritus, effective April 1, 1987.

ANDREW H. BREINER, School of Health, Physical Education and Recreation, with the title Assistant Professor Emeritus, effective August 1, 1987.

PAUL B. DIERKSEN, College of Dentistry - Diagnostic Services, with the title Assistant Professor Emeritus, effective August 1, 1987.

R. JOAN SELLS, Cooperative Extension Service, with the title Assistant Professor Emeritus, effective August 1, 1987.

ELEANOR R. KERSH, Cooperative Extension Service, with the title Instructor Emeritus, effective August 1, 1987.

RAYMOND S. BUGNO, Ohio State University Research Foundation, with the title Deputy Director Emeritus - Research Foundation, effective July 1, 1987.

Upon motion of Mrs. Bowser, seconded by Mr. Berry, the Board of Trustees adopted the foregoing resolution by unanimous roll call vote.

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RESOLUTIONS IN MEMORIAM

Resolution No. 88-19

Synopsis: Resolutions honoring the service of seven of the University's faculty members who have recently died are being proposed.

RESOLVED, That the Board adopt the following Resolutions in Memoriam and that the President be requested to convey a copy to the families of the deceased.

September 3 and 4, 1987 meeting, Board of Trustees

RESOLUTIONS IN MEMORIAM (contd)

Luther M. Keith, Jr.

The Board of Trustees of The Ohio State University expresses its sorrow upon the death on June 19, 1987, of Luther M. Keith, Jr., Professor in the Department of Surgery.

Dr. Keith was born November 3, 1919, in Ralls, Texas. He graduated from Texas Technical College in Lubbock, and received his M.D. degree from the University of Tennessee. He served in the United States Navy from 1945-46 and 1950-52.

Dr. Keith was appointed Instructor in the Department of Surgery in 1950 and remained on the faculty until his death. He was Vice Chairperson of the Department of Surgery from 1972 until 1987 and Acting Chairperson in 1974-75.

In addition to his role in the Department of Surgery, he was Team Physician in the Department of Athletics.

Throughout his career, Dr. Keith was a dedicated teacher and role model for students and residents. His calm demeanor and expectation of excellence were important attributes in guiding his students.

On behalf of the University, the Board of Trustees expresses to the family its deep sympathy. It was directed that this resolution be inscribed upon the minutes of the Board of Trustees and that a copy be tendered to the family as an expression of the Board's heartfelt sympathy.

Gertrude C. Kuehefuhs

The Board of Trustees of The Ohio State University expresses its sorrow upon the death on July 21, 1987, of Gertrude C. Kuehefuhs, Professor Emeritus and former Chairman of the Division of Music Theory and Composition in the School of Music.

Professor Kuehefuhs was born September 17, 1916, in Philadelphia, Pennsylvania. As a child she demonstrated an exceptional talent for music and had the good fortune to study with leading Philadelphia teachers, including Leopold Sayre and Vincent Jones. She attended Temple University, receiving a B.S. in Education in 1938 and an Ed.M. in Music in 1939. Subsequently, she studied at the Pius X School of Liturgical Music in New York and attended summer sessions of the Eastman School of Music, Tanglewood.

Following four years of teaching music in the Philadelphia Public Schools, Professor Kuehefuhs joined the faculty of The Ohio State University in 1943. Her forty-three years of service to the School of Music profoundly influenced the development of the curriculum. From 1962 to 1968, she served as a division chairman, and in 1964 she was promoted to the rank of Professor of Music. Professor Kuehefuhs was the first woman in the history of the School of Music to achieve either of these distinctions. Upon her retirement in 1985, she was named Professor Emeritus.

September 3 and 4, 1987 meeting, Board of Trustees

RESOLUTIONS IN MEMORIAM (contd)

Gertrude C. Kuehefuhs (contd)

Professor Kuehefuhs was a member of a number of professional societies and served as president of the Ohio Theory-Composition Teachers Association and of The Ohio State University Chapter of the Pi Kappa Lambda Music Honorary Society.

Throughout her tenure, Professor Kuehefuhs enlivened her teaching by maintaining an active performing career. She was harpist for the Columbus Philharmonic Orchestra from 1943 until its demise in 1945 and principal keyboard specialist for the Columbus Symphony Orchestra from its inception in 1951 until her retirement. As a respected chamber musician and accompanist, she participated in over 300 major recitals. Also active as a church musician, she was organist in many Columbus Catholic Churches and director of the Newman Center Choir for several decades.

In recent years she extended her contribution to the community as reader for the Central Ohio Radio Reading Service.

On behalf of the University, the Board of Trustees expresses to the family its deep sympathy and sense of understanding in their loss. It was directed that this resolution be inscribed upon the minutes of the Board of Trustees and that a copy be tendered to the family as an expression of the Board's heartfelt sympathy.

Hollie W. Shupe

The Board of Trustees of The Ohio State University expresses its sorrow upon the death on July 20, 1987, of Hollie W. Shupe, University Architect Emeritus in the Office of the University Architect.

Hollie Shupe was born on October 9, 1915, in Columbia Center, Ohio. He received his Bachelor of Architecture degree from The Ohio State University in 1936. A member of Phi Eta Sigma, Tau Beta Pi, and Alpha Rho Chi, he was awarded the American Institute of Architects' School Medal for outstanding academic achievement in his senior year.

Professor Shupe was a registered architect and a registered professional engineer in the State of Ohio. His early professional experience included research in early American architecture. During the Second World War, he served in the Americal Division, U. S. Army, in the Asiatic-Pacific theater and attained the rank of Lieutenant Colonel. He received a Bronze Star, an Air Medal, Presidential Unit Citation, Distinguished Unit Citation, and several battle stars.

In 1939, he joined the faculty of the College of Engineering and in 1948 was named Professor of Engineering Drawing. Professor Shupe's academic accomplishments included co-authoring four text books and work books on engineering graphics. He was named University Architect in 1965, having previously worked in the Office of the University Architect on such buildings as Canfield Hall, Vivian Hall, and the north wing of the University Hospital. As University Architect, he administered the design and construction of nearly \$200,000,000 in new buildings, including essentially the entire development of all regional campuses, the West

September 3 and 4, 1987 meeting, Board of Trustees

RESOLUTIONS IN MEMORIAM (contd)

Hollie W. Shupe (contd)

Campus, and numerous other buildings on the Columbus Campus. Following his retirement in 1973, Professor Shupe assisted the City of Marietta in the restoration of that city's business center.

On behalf of the University Community, the Board of Trustees expresses to the family of Hollie W. Shupe its deepest sympathy. It was directed that this resolution be inscribed upon the minutes of the Board of Trustees and that a copy be tendered to the family as an expression of the Board's heartfelt sympathy.

George R. Staten

The Board of Trustees of The Ohio State University expresses its sorrow upon the death on August 10, 1987, of George R. Staten, Professor Emeritus in the School of Health, Physical Education and Recreation, and long time director of football ticket sales.

Born in 1901, George Staten attended high school in Portsmouth, Ohio. He served as Assistant Football Coach at The Ohio State University in 1933-34 after leaving a position at Ohio Wesleyan University where he was Assistant Director of Athletics from 1924-33. He served as Director of Athletics at the John Burroughs School in St. Louis, Missouri, from 1934-50. While there his coaching in baseball, basketball, and football brought many league championships to the school. In 1950, he returned to Ohio State as freshman baseball and basketball coach as well as assistant football coach. In 1953, he was appointed as Director of Ticket Sales. Under his leadership Ohio State ranked first in total attendance at home games for sixteen out of seventeen, between 1953 and 1969. He was granted tenure in 1954. He retired from his position in 1970 and was named Professor Emeritus.

The strong leadership and managerial excellence displayed by George Staten contributed to bringing the Ohio State football program into the national prominence it holds today.

On behalf of the University, the Board of Trustees expresses to the family its deep sympathy and sense of understanding in their loss. It was directed that this resolution be inscribed upon the minutes of the Board of Trustees and that a copy be tendered to the family as an expression of the Board's heartfelt sympathy.

Genevieve W. Tucker

The Board of Trustees of The Ohio State University expresses its sorrow upon the death on July 2, 1987, of Genevieve Winans Tucker, Instructor Emeritus in the Department of English.

Mrs. Tucker graduated from the Columbus School for Girls in 1929; from Wellesley College in 1933 with a B.A.; and from The Ohio State University in 1939 with a M.A. in English. Her 16-year career at Ohio State began in 1960 as an Assistant Instructor. She was promoted to Instructor in 1965. Mrs. Tucker taught primarily Technical Writing, American

September 3 and 4, 1987 meeting, Board of Trustees

RESOLUTIONS IN MEMORIAM (contd)

Genevieve W. Tucker (contd)

Literature, and Advanced Composition. She was also a research assistant for the Centennial Edition of Emerson's Essays. Upon her retirement in 1976, she was named Instructor Emeritus.

On behalf of the University community, the Board of Trustees expresses to the family of Mrs. Tucker its deepest sympathy. It was directed that this resolution be inscribed upon the minutes of the Board of Trustees and that a copy be tendered to the family as a sincere expression of the Board's realization of the loss that the family, the University and her many friends and associates have sustained.

Morris Emmett Wilson

The Board of Trustees of The Ohio State University expresses its sorrow upon the death on May 23, 1987, of M. Emmett Wilson, Professor Emeritus in the School of Music.

Dr. Wilson was born June 10, 1894, in Oshkosh, Wisconsin. His early musical training included study with distinguished teachers, such as Arne Oldberg and Leo Sowerby. His academic training was broadly based. He earned a B.A. in Philosophy at the University of Minnesota (1921); an A.M. in Education at the University of Chicago (1927); and a Ph.D. in Psychology at The Ohio State University (1930). In addition, he earned the degree Associate of the Guild of American Organists (1925).

Prior to coming to Ohio State, Dr. Wilson enjoyed a varied musical career in Chicago. Notable posts were Organist and Choirmaster at the Episcopal Cathedral and at the Grace Church, Organist at the Adams Theater, and Director of the University of Chicago Band (1922-27), during the time when the University was still affiliated with the Big Ten Conference.

In 1927, Dr. Wilson was appointed Associate Professor of Instrumental Music at The Ohio State University and in 1935 he was promoted to the rank of Professor of Music. During his distinguished tenure he had the honor of serving as Visiting Professor at the Carnegie Institute of Technology (1937) and as Exchange Professor to the University of London (1952-53). Upon his retirement in 1960, he was named Professor Emeritus.

Dr. Wilson was a member of many professional societies, including the College Music Society, the Music Educators National Conference, and the American Society of Aesthetics. He served as Dean of the Central Ohio Chapter of the American Guild of Organists. His books, Music History at a Glance and How to Play by Ear, were widely read, and his music history broadcasts on WOSU radio (1942-59) gained a devoted listening audience.

The death of M. Emmett Wilson marks a milestone in the history of the School of Music; he was the last of the original five member of the music faculty.

On behalf of the University, the Board of Trustees expresses to the family its deep sympathy and sense of understanding in their loss. It was directed that this resolution be inscribed upon the minutes of the Board of Trustees and that a copy be tenured to the family as an expression of the Board's heartfelt sympathy.

September 3 and 4, 1987 meeting, Board of Trustees

RESOLUTIONS IN MEMORIAM (contd)

Alden R. Winter

The Board of Trustees of The Ohio State University expresses its sorrow upon the death on August 20, 1987, of Alden R. Winter, Professor Emeritus in the Department of Poultry Science.

Dr. Winter was born on September 23, 1897. A native of West Virginia, he received a B.A. degree from the University of West Virginia, and M.S. and Ph.D. degrees from The Ohio State University. He was on the nutrition staff of the Ohio Agricultural Research and Development Center at Wooster from 1920-26, and from then until retirement in 1968 he served on the faculty of The Ohio State University Department of Poultry Science at Columbus. He served as Chairperson of the Department for 10 years.

Dr. Winter taught bacteriology at the University, and on special leaves he did consulting work for the United States Department of Agriculture and for commercial feed companies. He also did food research for the U.S. Army Quartermaster Corps at Iowa State University during WWII, and served on the U.S.A.I.D. Program in India (1964-67). Active in numerous professional, social and fraternal organizations, Dr. Winter was listed in the American Men and Women of Science. He was also named a Fellow of the Poultry Science Association and a member of the Poultry Hall of Fame. He was a veteran of WWI, a member of the King Avenue United Methodist Church, University Post of the American Legion, the Faculty Club, and The Ohio State University President's Club.

On behalf of the University community, the Board of Trustees expresses to the family of Alden R. Winter its deepest sympathy. It was directed that this resolution be inscribed upon the minutes of the Board of Trustees, and that a copy be tendered to the family as an expression of the Board's heartfelt sympathy.

Upon motion of Ms. Casto, seconded by Mr. Berry, the Board of Trustees adopted the foregoing resolution by unanimous voice vote.

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REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS

Resolution No. 88-20

Synopsis: The reports on contracts, grants, and gifts and the summary for June and July 1987 are presented for Board acceptance.

WHEREAS monies are solicited and received on behalf of the University from governmental, industrial, other agencies, alumni, and various individuals in support of research, instructional activities, and service; and

WHEREAS such gifts and grants are received through The Ohio State University Research Foundation, the Engineering Experiment Station of The Ohio State University, The Ohio State University Development Fund, and The Ohio State University Foundation:

NOW THEREFORE

September 3 and 4, 1987 meeting, Board of Trustees

REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)

BE IT RESOLVED, That the research agreement between The Ohio State University and The Ohio State University Research Foundation for the contracts and grants reported herein, and the acceptance of the reports from the Engineering Experiment Station, The Ohio State University Development Fund, and The Ohio State University Foundation during the month of June and July 1987 be approved.

Upon motion of Mr. Teaford, seconded by Ms. Casto, the Board of Trustees adopted the foregoing resolution by unanimous voice vote.

SUMMARY FOR JUNE 1987

Source	No. of Projects	Support Level
The Ohio State University Research Foundation	173	\$8,942,685.85
Engineering Experiment Station	75	491,333.00
Total	248	\$9,434,018.85

The Ohio State University Development Fund

Establishment of Named Fund

The Huntington National Bank Fellows
in International Business and Foreign
Language Study
(To permit students majoring in the
humanities with interest and supporting
work in international business and trade
to spend an academic year abroad)

\$ 50,000.00

Change of Name and Description of Named Fund

From: Ralph and Estelle Wenrick Scholarship Fund
To: Ralph and Estel Wenrick Scholarship Fund

Change in Description of Named Funds

The Joseph B. Collinson Scholarship Fund
Mary C. and Ezra Place Scholarship

SUMMARY FOR JULY 1987

Source	No. of Projects	Support Level
The Ohio State University Research Foundation	125	\$13,022,031.81
Engineering Experiment Station	58	371,853.00
Total	183	\$13,393,884.81

September 3 and 4, 1987 meeting, Board of Trustees

REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)

SUMMARY FOR JULY 1987 (contd)

The Ohio State University Development Fund

Establishment of Named Funds

The Denver Collins, Jr., Scholarship Fund (Scholarships - Civil Engineering)	\$ 28,000.00
Horse Production and Management Educational Fund (To enhance the ATI's Horse Production and Management Program)	\$ 15,000.00
The William Poland Lectures in Music Theory (To provide an honorarium and expenses to one or more eminent scholars who will lecture on a topic of critical importance to scholarship in the theory of music)	\$ 15,000.00
The Hermann Meyer Veterinary Anatomy Award (Provide funds for annual awards to one or more freshman veterinary students)	\$ 6,000.00

The Ohio State University Foundation

Approval of Description and Establishment of Fund	Portion Transferred for Program Support*
College of Nursing Endowment (Income shall be used at the discretion of the Dean of the College of Nursing for new incentives within the college)	

*Portion transferred is to be specified annually in a report submitted by the University Treasurer.

September 3 and 4, 1987 meeting, Board of Trustees

REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)

THE OHIO STATE UNIVERSITY RESEARCH FOUNDATION

Report - June 1987

Federal Research Contracts/Grants

\$386,351.00 - Department of Health and Human Services, Public Health Service, National Institutes of Health, Bethesda, Maryland, Investigation of Problem-Solving and Man-Machine Systems, Department of Pathology (J. W. Smith and M. S. Kennedy), Department of Industrial and Systems Engineering (P. J. Smith) and Department of Computer and Information Science (B. Chandrasekaran), 1 July 1987 through 30 June 1988. (Project 766119 - New)

\$253,000.00 - Department of Health and Human Services, Public Health Service, National Institutes of Health, Bethesda, Maryland, Biochemical Applications of an EPR Spectrometer, Department of Physiological Chemistry (C. R. Hille), 1 June 1987 through 31 May 1988. (Project 766112 - New)

\$249,578.00 - Department of the Navy, Office of Naval Research, Washington, D.C., Space-Based Radar Target Identification and Performance Analysis of Large Adaptive Arrays, Department of Electrical Engineering, ElectroScience Laboratory (E. K. Walton and R. T. Compton), 1 July 1987 through 30 June 1988. (Project 766192 - Continuation)

\$177,737.00 - Department of Health and Human Services, Public Health Service, National Institutes of Health, Bethesda, Maryland, Mouse Thymidylate Synthase Gene Expression, Department of Biochemistry (L. F. Johnson), 1 September 1987 through 31 August 1988. (Project 762903 - Continuation)

\$141,907.00 - Department of Health and Human Services, Public Health Service, National Institutes of Health, Bethesda, Maryland, Study of the Clinical Pharmacokinetics of Anti-Cancer Drugs, College of Pharmacy (L. Malspeis), 1 June 1987 through 31 May 1988. (Project 766139 - New)

\$139,055.00 - Department of Health and Human Services, Public Health Service, National Institutes of Health, Bethesda, Maryland, Acute Phase Reactants: Induction and Host Resistance, Department of Microbiology (R. F. Mortensen), 1 July 1987 through 30 June 1988. (Project 762354 - Continuation)

\$138,000.00 - Department of the Interior, Bureau of Mines, Washington, D.C., Mining and Mineral Resources Research Institute -- Annual Allotment, Department of Metallurgical Engineering (G. R. St. Pierre), 1 July 1987 through 30 June 1988. (Project 766197 - Continuation)

\$133,831.00 - Department of Health and Human Services, Public Health Service, National Institutes of Health, Bethesda, Maryland, The Immune Complex-Mediated Glomerulopathies, Department of Internal Medicine (L. A. Hebert), 1 July 1987 through 30 June 1988. (Project 761786 - Continuation)

\$132,969.00 - Department of Health and Human Services, Public Health Service, National Institutes of Health, Bethesda, Maryland, Salamander

September 3 and 4, 1987 meeting, Board of Trustees

REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)

THE OHIO STATE UNIVERSITY RESEARCH FOUNDATION (contd)

Federal Research Contracts/Grants (contd)

Limb Regeneration: Studies with Monoclonal Antibodies, Departments of Zoology and Molecular Genetics (R. A. Tassava), 1 July 1987 through 30 June 1988. (Project 766132 - New)

\$130,626.00 - Department of Health and Human Services, Public Health Service, National Institutes of Health, Bethesda, Maryland, Intramolecular Electron Migration in Proteins and Polypeptides, Department of Chemistry (M. H. Klapper), 1 July 1987 through 30 June 1988. (Project 765529 - Continuation)

\$129,182.00 - Department of Health and Human Services, Public Health Service, National Institutes of Health, Bethesda, Maryland, Functional Analysis of DNA Topoisomerase I in Herpes Simplex Virus, Department of Microbiology (M. T. Muller) and Department of Medical Microbiology and Immunology (D. S. Parris), 1 July 1987 through 30 June 1988. (Project 765482 - Continuation)

\$128,310.00 - Department of Health and Human Services, Public Health Service, National Institutes of Health, Bethesda, Maryland, Immunosuppressive Properties of Retrovirus Protein, Department of Veterinary Pathobiology (R. G. Olsen and L. E. Mathes) 1 July 1987 through 30 June 1988. (Project 762986 - Continuation)

\$117,000.00 - Department of Agriculture, Science and Education, Washington, D.C., Rain Splash Dispersal of Fungal Pathogens of Strawberry, Department of Plant Pathology - OARDC (L. V. Madden and M. A. Ellis), 1 September 1987 through 31 August 1989. (Project 764729 - Continuation)

\$114,755.00 - Department of Health and Human Services, Public Health Service, National Institutes of Health, Bethesda, Maryland, Somatostatin in Spinal Sensory Circuits, Department of Anatomy (R. H. Ho), 1 July 1987 through 30 June 1988. (Project 766184 - New)

\$111,925.00 - Department of Health and Human Services, Public Health Service, Health Resources and Services Administration, Rockville, Maryland, Health Careers Opportunity Program, School of Allied Medical Professions (S. L. Wilson), 1 September 1987 through 31 August 1988. (Project 766127 - New)

\$108,000.00 - Department of Education, Office of Educational Research and Improvements, Washington, D.C., ERIC Clearinghouse on Adult, Career and Vocational Education, The National Center for Research in Vocational Education (R. D. Ryan, Jr.), 1 October 1987 through 31 December 1987. (Project 764387 - Continuation)

\$105,130.00 - Department of the Interior, Geological Survey, Reston, Virginia, FY 1987 State Water Research Institute Program, Department of Civil Engineering and Engineering Experiment Station (R. C. Stiefel), Department of Chemical Engineering (L. S. Fan), Department of City and Regional Planning (S. I. Gordon), and Department of Agronomy (S. J. Traina and T. J. Logan), 1 July 1987 through 30 June 1988. (Project 766191 - Continuation)

September 3 and 4, 1987 meeting, Board of Trustees

REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)

THE OHIO STATE UNIVERSITY RESEARCH FOUNDATION (contd)

Federal Research Contracts/Grants (contd)

\$100,000.00 - Department of Agriculture, Science and Education, Washington, D.C., Chemical Ecology of Nitidulid Beetles, Pathogenic Fungi, and Their Plant Hosts, Department of Entomology - OARDC (P. L. Phelan and R. N. Williams) and Department of Plant Pathology - OARDC (M. A. Ellis), 1 July 1987 through 30 June 1989. (Project 766174 - New)

\$97,835.00 - Department of Health and Human Services, Public Health Service, National Institutes of Health, Bethesda, Maryland, FSH and the Regulation of Ovarian Folliculogenesis, Department of Anatomy (B. E. Batten), 1 April 1987 through 31 March 1988. (Project 765914 - Continuation)

\$96,074.00 - National Science Foundation, Washington, D.C., Totally Synthetic Heme Protein Models, Department of Chemistry (D. H. Busch), 1 July 1987 through 31 December 1988. (Project 766188 - New)

\$85,379.00 - Department of Education, Office of Special Education and Rehabilitation Services, Washington, D.C., Preparation of Therapeutic Recreation Specialists: An Interdisciplinary Program for the Preservice Preparation of Teachers in the Area of Severe Behavior Handicaps, Department of Human Services Education (J. O. Cooper) and Department of Human Services Education and School of Health, Physical Education, and Recreation (J. J. Trap), 1 July 1987 through 30 June 1988. (Project 766097 - New)

\$84,747.00 - Department of Health and Human Services, Public Health Service, National Institutes of Health, Bethesda, Maryland, Novel Uracils, Pyrimidines, Azoles and Purines, Department of Chemistry (H. Shechter), 1 July 1987 through 31 May 1988. (Project 762793 - Continuation)

\$83,277.00 - Department of Health and Human Services, Public Health Service, National Institutes of Health, Bethesda, Maryland, Oncology Training Grant, Department of Internal Medicine (S. P. Balcerzak), 1 July 1987 through 30 June 1988. (Project 761160 - Continuation)

\$81,600.00 - National Science Foundation, Washington, D.C., Rydberg States of Atoms and Molecules, Department of Physics (R. D. Knight), 1 July 1987 through 31 December 1988. (Project 764851 - Continuation)

\$79,519.00 - Department of Health and Human Services, Public Health Service, Alcohol, Drug Abuse, and Mental Health Administration, Rockville, Maryland, Research Training Program in Psychoneuroimmunology, Department of Medical Microbiology and Immunology (M. R. Glaser), 1 July 1987 through 30 June 1988. (Project 766200 - New)

\$78,490.00 - Department of Health and Human Services, Public Health Service, Health Resources and Services Administration, Rockville, Maryland, Advanced Educational Program in General Dentistry, Community Dentistry (L. P. Diorio), 1 July 1987 through 30 June 1988. (Project 765454 - Continuation)

September 3 and 4, 1987 meeting, Board of Trustees

REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)

THE OHIO STATE UNIVERSITY RESEARCH FOUNDATION (contd)

Federal Research Contracts/Grants (contd)

\$77,139.00 - Department of Health and Human Services, Public Health Service, National Institutes of Health, Bethesda, Maryland, Neural Regulation of Intestinal Mucosa, Department of Physiology (H. J. Cooke), 1 July 1987 through 30 June 1988. (Project 765011 - Continuation)

\$76,702.00 - Department of Health and Human Services, Public Health Service, Alcohol, Drug Abuse, and Mental Health Administration, Rockville, Maryland, Tourette Syndrome: Behavioral, Biochemical and EEG Deficit, Department of Psychiatry (R. A. Bornstein), 1 July 1987 through 30 June 1988. (Project 766121 - New)

\$69,800.00 - National Science Foundation, Washington, D.C., Toughness, Strength, and R-Curve Behavior in Microcracking Materials, Department of Ceramic Engineering (K. T. Faber), 1 July 1987 through 31 December 1988. (Project 766199 - Continuation)

\$69,730.00 - National Science Foundation, Washington, D.C., A Strategy for Inter-Organizational Measurement: Insights from the Resource Perspective, Department of Sociology (T. L. Parcel, W. Form, R. Kaufman and M. Wallace), 5 June 1987 through 30 June 1988. (Project 766108 - New)

\$65,743.00 - Department of Health and Human Services, Public Health Service, National Institutes of Health, Bethesda, Maryland, The Application of Low Temperature Chemistry and Kinetics to Photoaffinity Labeling, Department of Chemistry (M. S. Platz) 1 July 1987 through 30 June 1988. (Project 765496 - Continuation)

\$62,500.00 - National Science Foundation, Washington, D.C., Presidential Young Investigator Award -- Fracture and Toughening of Ceramic Materials, Department of Ceramic Engineering (K. T. Faber), 1 July 1987 through 31 December 1988. (Project 764324 - Continuation)

\$61,909.00 - Department of Health and Human Services, Public Health Service, National Institutes of Health, Bethesda, Maryland, A 60 Kilodalton Oncofetal Protein Associated with Carcinogenesis, Department of Physiological Chemistry (T. E. Webb), 1 August 1986 through 31 January 1988. (Project 765588 - Continuation)

\$60,000.00 - Department of Education, Washington, D.C., Advanced Intensive Swahili Group Project Abroad, Department of Judaic and Near Eastern Languages and Literatures (F. J. Cadore), 15 May 1987 through 15 September 1987. (Project 766051 - New)

\$60,000.00 - National Science Foundation, Washington, D.C., Photon- and Electron-Molecule Collisions and Molecular Resonance Phenomena, Department of Chemistry (C. W. McCurdy), 1 July 1987 through 31 January 1989. (Project 765573 - Continuation)

\$60,000.00 - National Science Foundation, Washington, D.C., Combined Variance Reduction and Output Analysis in Stochastic Simulation, Department of Industrial and Systems Engineering (B. L. Nelson), 15 July 1987 through 30 June 1989. (Project 766193 - New)

September 3 and 4, 1987 meeting, Board of Trustees

REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)

THE OHIO STATE UNIVERSITY RESEARCH FOUNDATION (contd)

Federal Research Contracts/Grants (contd)

\$59,304.00 - National Aeronautics and Space Administration, Langley Research Center, Hampton, Virginia, Space Station Antenna Design Studies, Department of Electrical Engineering, ElectroScience Laboratory (W. D. Burnside), 1 May 1987 through 30 April 1988. (Project 761012 - Continuation)

\$57,115.00 - Department of Health and Human Services, Public Health Service, Health Resources and Services Administration, Rockville, Maryland, Graduate Program in Hospital and Health Services Administration, Hospital and Health Services Administration (S. F. Loeb), 1 October 1987 through 30 September 1988. (Project 761329 - Continuation)

\$52,110.00 - National Science Foundation, Washington, D.C., Single-Atom Peri-Bridged Arenes and Hetarenes: Carbonic Processes, Department of Chemistry (H. Shechter), 1 July 1987 through 31 December 1988. (Project 764751 - Continuation)

\$51,000.00 - National Aeronautics and Space Administration, Goddard Space Flight Center, Greenbelt, Maryland, Terrestrial Gravity Data Analysis for Interim Gravity Model Improvement, Department of Geodetic Science and Surveying (R. H. Rapp), 1 July 1987 through 30 June 1988. (Project 765353 - Continuation)

\$50,928.00 - Department of Health and Human Services, Public Health Service, National Institutes of Health, Bethesda, Maryland, Calcium and Calmodulin in Smooth Muscle Contraction, Department of Physiological Chemistry (J. D. Johnson), 1 July 1987 through 30 June 1988. (Project 764653 - Continuation)

\$50,719.00 - Department of Health and Human Services, Public Health Service, National Institutes of Health, Bethesda, Maryland, Maternal Growth Factors in Neonatal Growth, Department of Animal Science - OARDC (F. A. Simmen), 1 July 1987 through 30 June 1988. (Project 765566 - Continuation)

\$50,000.00 - National Aeronautics and Space Administration, Washington, D.C., Effects of Hypergravity and Hypogravity Environments on Cell Cycle Regulation During Fern Spore Germination, Department of Botany (V. Raghavan), 15 June 1987 through 14 June 1988. (Project 765460 - Continuation)

\$49,994.00 - Department of the Navy, Office of Naval Research, Arlington, Virginia, A Theoretical and Experimental Study of Weld Solidification Under Transient Conditions, Department of Welding Engineering (W. A. Baeslack III), 30 June 1987 through 15 December 1987. (Project 764095 - Continuation)

\$49,990.00 - Department of Energy, Argonne, Illinois, Investigations of Ultrasonic Surface Wave Interaction with Porous Saturated Rocks, Department of Welding Engineering (L. Adler), 1 July 1987 through 30 June 1988. (Project 766168 - New)

September 3 and 4, 1987 meeting, Board of Trustees

REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)

THE OHIO STATE UNIVERSITY RESEARCH FOUNDATION (contd)

Federal Research Contracts/Grants (contd)

\$48,000.00 - Department of the Air Force, Air Force Systems Command, Bolling Air Force Base, D.C., Cumulative Damage Modeling in Composite Laminates, Department of Civil Engineering (R. S. Sandhu, R. L. Sierakowski and W. E. Wolfe), 1 July 1987 through 30 September 1987. (Project 765471 - Continuation)

\$45,000.00 - Department of Education, Washington, D.C., The Ohio State-Purdue Russian Language Program at the Pushkin Institute in Moscow, USSR, Department of Slavic and East European Languages and Literatures (G. Kalbous), 1 August 1987 through 31 July 1988. (Project 766155 - New)

\$44,113.00 - Department of Health and Human Services, Public Health Service, National Institutes of Health, Bethesda, Maryland, Sertoli Cell-Germ Cell Surface Membrane Interactions, Department of Anatomy (R. M. DePhilip), 1 July 1987 through 30 June 1988. (Project 764825 - Continuation)

\$43,687.00 - Department of Health and Human Services, Public Health Service, National Institutes of Health, Bethesda, Maryland, DNA Synthesizer: Refrigerated Microfuge, College of Medicine - Administration (D. G. Cornwell), 5 June 1987 through 4 June 1988. (Project 766161 - New)

\$39,930.00 - National Aeronautics and Space Administration, Goddard Space Flight Center, Greenbelt, Maryland, Robust Estimation of Regional Deformations and Relative Plate Motions from Robust Estimation, Department of Geodetic Science and Surveying (I. I. Mueller), 1 July 1987 through 30 June 1988. (Project 761054 - Continuation)

\$37,154.00 - Department of Health and Human Services, Public Health Service, National Institutes of Health, Bethesda, Maryland, Fixed Angle Rotor and Other Equipment, Research and Graduate Studies Administration (T. L. Sweeney), 1 June 1987 through 31 May 1988. (Project 766118 - New)

\$35,000.00 - National Aeronautics and Space Administration, Washington, D.C., The Role of Gravity in Apical Dominance, Department of Botany (M. G. Cline), 1 May 1987 through 30 April 1988. (Project 764141 - Continuation)

\$35,000.00 - National Aeronautics and Space Administration, Lewis Research Center, Cleveland, Ohio, Studies in Electromagnetic Scattering, Department of Electrical Engineering, ElectroScience Laboratory (P. H. Pathak), 1 July 1987 through 31 December 1987. (Project 763822 - Continuation)

\$33,318.00 - Department of Health and Human Services, Public Health Service, National Institutes of Health, Bethesda, Maryland, Uteroferrin Gene Expression During Fetal and Placental Development, Department of Animal Science - OARDC (R. C. M. Simmen), 1 July 1986 through 30 June 1987. (Project 765565 - Continuation)

September 3 and 4, 1987 meeting, Board of Trustees

REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)

THE OHIO STATE UNIVERSITY RESEARCH FOUNDATION (contd)

Federal Research Contracts/Grants (contd)

\$30,600.00 - National Science Foundation, Washington, D.C., Probability and Ergodic Theory, Department of Mathematics (L. Sucheston), 1 June 1987 through 30 November 1988. (Project 765394 - Continuation)

\$26,600.00 - National Science Foundation, Washington, D.C., Studies of Arithmetic Automorphic Forms, Department of Mathematics (Y. Flicker), 1 July 1987 through 31 December 1989. (Project 766195 - New)

\$26,145.00 - Department of Health and Human Services, Public Health Service, National Institutes of Health, Bethesda, Maryland, General Clinical Research Center, College of Medicine - Administration (M. Tzagournis) and Department of Internal Medicine (W. Malarkey), 1 July 1987 through 30 November 1987. (Project 761196 - Continuation)

\$26,000.00 - National Science Foundation, Washington, D.C., Cyclic Homology, Algebra, Topology, and Geometry, Department of Mathematics (D. Burghel), 15 June 1987 through 30 November 1988. (Project 766187 - New)

\$22,543.00 - National Science Foundation, Washington, D.C., Workshop on the Application of Image Processing and Analysis to Research on Coherent Structures in Turbulent Shear Flows, Department of Chemical Engineering (R. S. Brodkey), 1 June 1987 through 31 May 1988. (Project 766113 - New)

\$22,500.00 - National Science Foundation, Washington, D.C., An International Conference in Game Theory: Principles and Applications of Game Theory, Department of Economics (E. J. Ray), 1 May 1987 through 30 November 1987. (Project 766131 - New)

\$22,200.00 - National Science Foundation, Washington, D.C., Complex Banach Spaces, Department of Mathematics (G. Edgar), 1 January 1988 through 30 June 1990. (Project 766189 - New)

\$18,796.00 - Department of Health and Human Services, Public Health Service, National Institutes of Health, Bethesda, Maryland, Graduate Training in Biochemical Neuropathology, Department of Physiological Chemistry (L. A. Horrocks), 1 July 1986 through 30 June 1988. (Project 760708 - Continuation)

\$17,500.00 - National Science Foundation, Washington, D.C., Traveling Wave Solutions of Reaction Diffusion Systems, Department of Mathematics (D. Terman), 1 June 1987 through 30 November 1988. (Project 766089 - New)

\$14,484.00 - Department of Health and Human Services, Public Health Service, National Institutes of Health, Bethesda, Maryland, Perkin-Elmer Model LS-5B Luminescence Spectrophotometer and IBM-AT Computer, Department of Veterinary Pathobiology (L. E. Mathes), 5 June 1987 through 4 June 1988. (Project 766164 - New)

\$14,090.00 - Department of Health and Human Services, Public Health Service, National Institutes of Health, Bethesda, Maryland, Multiple Comparisons with the Best Treatment, Department of Statistics (J. C. Hsu), 1 August 1986 through 31 January 1988. (Project 765581 - Continuation)

September 3 and 4, 1987 meeting, Board of Trustees

REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)

THE OHIO STATE UNIVERSITY RESEARCH FOUNDATION (contd)

Federal Research Contracts/Grants (contd)

\$13,650.00 - National Science Foundation, Washington, D.C., Arithmetic of Abelian Varieties, Department of Mathematics (A. Silverberg), 15 June 1987 through 30 November 1988. (Project 766169 - New)

\$11,903.00 - National Aeronautics and Space Administration, Lewis Research Center, Cleveland, Ohio, Effects of Ice Formation on 2-D Aerodynamic Shapes, Department of Aeronautical and Astronautical Engineering (M. B. Bragg and G. M. Gregorek), 1 July 1987 through 31 October 1987. (Project 762009 - Continuation)

\$10,000.00 - Department of State, Washington, D.C., Audiovisual Preparation for Public Education, School of Natural Resources (C. B. Davis and R. W. Fortner) and Department of Natural Resources - OARDC and School of Natural Resources (G. W. Mullins), 3 September 1986 through 31 March 1988. (Project 766102 - New)

\$8,000.00 - Department of State, Washington, D.C., Public Education and Biosphere Reserves, School of Natural Resources and Department of Natural Resources - OARDC (G. W. Mullins) and School of Natural Resources (C. B. Davis and R. W. Fortner), 28 September 1986 through 31 March 1988. (Project 766104 - New)

\$7,000.00 - Department of State, Washington, D.C., Adaptation of Media for Biosphere Reserves, School of Natural Resources (C. B. Davis and R. W. Fortner), Department of Natural Resources - OARDC and School of Natural Resources (G. W. Mullins), 25 September 1986 through 31 March 1988. (Project 766103 - New)

\$5,000.00 - Department of Agriculture, Forest Service, Broomall, Pennsylvania, Host Mediated Effects of Atmospheric Deposition on Insect Herbivores, Department of Entomology (R. W. Hall), 1 May 1987 through 14 September 1988. (Project 766106 - New)

\$1,534.00 - Department of the Interior, Bureau of Mines, Pittsburgh, Pennsylvania, Analysis of Hand Tool Injuries in the Underground Mining Industries, Department of Industrial and Systems Engineering (W. S. Marras) and Division of Mining Engineering (R. G. Lundquist), 17 August 1984 through 16 November 1987. (Project 764311 - Continuation)

Travel - Department of Agriculture, Office of International Cooperation and Development, Washington, D.C., National Conference on Africanized Honey Bees and Bee Mites, Department of Entomology (R. E. Page, Jr. and G. R. Needham), 30 March 1987 through 1 April 1987. (Project 766126 - New) (Approximate Dollar Value - \$19,000)

Equipment - Department of Energy, Albuquerque, New Mexico, Energy-Related Laboratory Equipment, Engineering Experiment Station (J. Tainagi), 1 June 1987 through 30 August 1987. (Project 766105 - New) (Approximate Dollar Value - \$2,366)

TOTAL - FEDERAL AWARDS

\$5,278,707.00

September 3 and 4, 1987 meeting, Board of Trustees

REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)

THE OHIO STATE UNIVERSITY RESEARCH FOUNDATION (contd)

State of Ohio Research Contracts/Grants

\$175,000.00 - State of Ohio, Department of Education, Columbus, Ohio, Ohio Middle and Junior High School Counselor Career/Vocational Guidance Development Professional Renewal Workshop Plan, The National Center for Research in Vocational Education (R. D. Ryan, Jr.), 4 June 1987 through 31 August 1987. (Project 766153 - New)

\$75,000.00 - State of Ohio, Department of Education, Columbus, Ohio, State Superintendent's Task Force, College of Education - Administration (T. Stephens), 1 July 1987 through 30 June 1988. (Project 766175 - Continuation)

\$42,591.00 - State of Ohio, Department of Education, Columbus, Ohio, Ohio's Martin W. Essex School for the Gifted - 1987, Department of Human Services Education (R. H. Swassing), 1 April 1987 through 31 March 1988. (Project 766064 - Continuation)

\$37,000.00 - State of Ohio, Department of Development, Columbus, Ohio, Retention and Expansion of Existing Businesses, Department of Agricultural Economics and Rural Sociology - OARDC and Cooperative Extension State Operations (G. W. Morse), 1 June 1987 through 30 June 1988. (Project 765667 - Continuation)

\$15,600.00 - State of Ohio, Ohio Arts Council, Columbus, Ohio, OSU Gallery Film and Video Series, College of The Arts - Administration (J. W. Green), 30 August 1987 through 30 June 1988. (Project 766156 - New)

\$10,966.00 - State of Ohio, Department of Education, Columbus, Ohio, Upward Bound Summer Food Service Program, Office of Minority Affairs (L. G. Morrow), 22 June 1987 through 31 July 1987. (Project 766120 - New)

\$4,721.00 - State of Ohio, Ohio Arts Council, Columbus, Ohio, Publication Support for "The Journal: The Literary Magazine of Ohio State University," Department of English (D. J. Citino), 1 October 1987 through 30 September 1988. (Project 766160 - New)

\$1,523.00 - State of Ohio, Ohio Arts Council, Columbus, Ohio, Kurt Jooss' The Green Table, Department of Dance (O. Blum), 1 December 1987 through 31 May 1988. (Project 766157 - New)

\$1,400.00 - State of Ohio, Ohio Arts Council, Columbus, Ohio, Historic Costume and Textile Restoration/Damage Assessment from Flooding, Department of Textiles and Clothing (L. R. Sibley), 15 June 1987 through 30 December 1987. (Project 766167 - New)

TOTAL - STATE OF OHIO AWARDS

\$ 363,801.00

Industrial Research Contracts/Grants

\$185,374.00 - General Motors Corporation, Allison Gas Turbine Division, Indianapolis, Indiana, Model Test Program on Gas Turbine Air Intake and Exhaust Uptake System, Department of Aeronautical and Astronautical Engineering (R. J. Freuler), 1 June 1987 through 30 November 1987. (Project 766095 - New)

September 3 and 4, 1987 meeting, Board of Trustees

REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)

THE OHIO STATE UNIVERSITY RESEARCH FOUNDATION (contd)

Industrial Research Contracts/Grants (contd)

\$108,854.70 - Norwich-Eaton Pharmaceuticals, Inc., Norwich, New York, The Neonatal Gnotobiotic Pig as a Host for a Model Campylobacter pyloridis Infection of the Upper GI Tract, Department of Veterinary Pathobiology (G. S. Krakowka), 23 June 1986 through 30 June 1988. (Project 765549 - Continuation)

\$99,888.00 - Rockwell International, Los Angeles, California, Extended Radar Cross Section Studies, Department of Electrical Engineering, ElectroScience Laboratory (W. D. Burnside and L. Peters, Jr.), 1 January 1987 through 30 September 1987. (Project 765903 - Continuation)

\$82,000.00 - The Standard Oil Company, Cleveland, Ohio, Functions and Graphs Approached Via Computers and Calculators, Department of Mathematics (F. Demana and B. K. Waits) and Department of Educational Theory and Practice (A. Osborne and G. Foley), 1 September 1987 through 31 August 1988. (Project 766194 - New)

\$77,608.00 - Kali-Duphar Laboratories, Inc., Worthington, Ohio, Eproxindine Hydrochloride (KC 3791): A Double-Blind, Placebo-Controlled, Intravenous Dose Ranging Study in Patients with Ventricular Premature Complexes, Department of Internal Medicine (S. F. Schaal), 1 May 1987 through 31 December 1987. (Project 766107 - New)

\$75,901.00 - Pfizer, Inc., Groton, Connecticut, Phase I Double-Blind, Placebo-Controlled, Single Dose Study to Establish Tolerantion, Pharmacokinetics and Bioavailability of CP-74,725, Department of Pharmacology (N. Gerber), 1 June 1987 through 31 May 1988. (Project 765696 - Continuation)

\$64,416.00 - American Cyanmid Company, Pearl River, New York, Studies of the Safety and Immunogenicity of an Acellular Pertussis Vaccine Compared to Whole Cell Pertussis Vaccine, Department of Pediatrics (L. K. Grossman), 1 July 1987 through 31 December 1988. (Project 766177 - New)

\$61,745.00 - Pfizer, Inc., Groton, Connecticut, Phase I Double-Blind, Placebo-Controlled, Escalating Single Dose Study to Determine the Effect of Food on the Pharmacokinetics and Tolerantion Study of Oral CP-66,948 in Normal Volunteers, Department of Pharmacology (N. Gerber), 1 March 1987 through 29 February 1988. (Project 765696 - Continuation)

\$59,280.00 - Pfizer, Inc., Groton, Connecticut, Phase I Double-Blind, Placebo-Controlled, Escalating Single Dose Pharmacokinetics and Tolerantion of Oral Enteric Coated CP-66,948 in Normal Male Volunteers, Department of Pharmacology (N. Gerber), 1 June 1987 through 31 May 1988. (Project 765696 - Continuation)

\$59,000.00 - Universal Energy Systems, Inc., Dayton, Ohio, Active Vibration Control of Large Space Structures, Department of Electrical Engineering (U. Ozguner and S. Yurkovich), 19 May 1987 through 30 December 1987. (Project 766098 - New)

September 3 and 4, 1987 meeting, Board of Trustees

REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)

THE OHIO STATE UNIVERSITY RESEARCH FOUNDATION (contd)

Industrial Research Contracts/Grants (contd)

\$51,056.00 - Ohio Edison Company, Akron, Ohio, The Experimental Winter Seining of Gizzard Shad (Dorosoma cepedianum) from the Warmwater Discharge Area of Lorain Harbor, Center for Lake Erie Area Research (J. M. Reutter), 1 July 1987 through 31 August 1988. (Project 766056 - New)

\$42,494.00 - Advanced Decision Systems, Inc., Mountain View, California, Sensor Algorithm Research, Department of Electrical Engineering, ElectroScience Laboratory (R. Marhefka), 7 November 1986 through 9 April 1987. (Project 766088 - New)

\$37,292.00 - The Conover Company, Omro, Wisconsin, Develop an English On-the-Job Module Series, The National Center for Research in Vocational Education (R. D. Ryan, Jr.), 18 May 1987 through 20 November 1987. (Project 766138 - New)

\$21,776.00 - Pfizer, Inc., Groton, Connecticut, Double-Blind, Placebo-Controlled, Ninety Day Toleration Study of CP-54,802, Department of Pharmacology (N. Gerber), 1 March 1987 through 30 June 1987. (Project 765696 - Continuation)

\$17,000.00 - Xoma Corporation, Berkeley, California, Phase II/III Multicenter Controlled Clinical Trial of Antiendotoxin Antibody XMMEN-OE5, Department of Internal Medicine (J. F. Plouffe), 1 May 1987 through 30 April 1988. (Project 766111 - New)

\$12,500.00 - Edison Welding Institute, Columbus, Ohio, Prediction of Welding Distortion Using Finite Element Method, Department of Welding Engineering (C. L. Tsai), 15 April 1987 through 31 July 1987. (Project 766024 - New)

\$8,000.00 - Ross Laboratories, Columbus, Ohio, Automated Warehouse Employee -- Orientation Videotape, College of Education - Administration (J. J. Buffer), 16 April 1987 through 30 June 1987. (Project 766170 - New)

\$7,717.25 - Cardinal Industries, Reynoldsburg, Ohio, Maintenance Training Development, College of Education - Administration (J. J. Buffer), 8 June 1987 through 30 November 1987. (Project 766143 - New)

\$6,925.00 - Pfizer, Inc., Groton, Connecticut, Phase I Single Dose Pharmacokinetic Study of CP-65,703, Department of Pharmacology (N. Gerber), 1 April 1987 through 30 June 1987. (Project 765696 - Continuation)

\$3,772.90 - Sandoz, Inc., East Hanover, New Jersey, Comparative Study Between 201-995 and Placebo in Acute Bleeding Due to Peptic Ulcer, College of Medicine - Administration and Department of Internal Medicine (H. S. Mekhjian), 1 March 1986 through 31 August 1987. (Project 766093 - New)

TOTAL - INDUSTRIAL AWARDS

\$1,082,599.85

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REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)

THE OHIO STATE UNIVERSITY RESEARCH FOUNDATION (contd)

Other Non-Federal Research Contracts/Grants

\$325,538.00 - United Nations, Geneva, Switzerland, Evaluation of Active Immunization with Synthetic Peptides of hCG as a Fertility Control Method, Department of Obstetrics and Gynecology (V. C. Stevens), 1 July 1987 through 30 June 1988. (Project 760113 - Continuation)

\$200,000.00 - American Cancer Society, Inc., New York, New York, Leukemia Cell Differentiation: Epigenetic Therapeutics, Department of Physiological Chemistry and Cancer Research Center (R. W. Trewyn), 1 July 1987 through 30 June 1989. (Project 766163 - New)

\$133,616.00 - Healthcare Financial Management Association, Oak Brook, Illinois, The Development of a Financial Service for the Hospital Industry, Hospital and Health Services Administration (W. O. Cleverley), 1 July 1987 through 30 June 1988. (Project 761794 - Continuation)

\$95,000.00 - University of Dayton, Dayton, Ohio, Rome Air Development Center -- Electromagnetic Surface Patch Code Improvement, Department of Electrical Engineering, ElectroScience Laboratory (E. H. Newman), 14 May 1987 through 30 September 1987. (Project 766092 - New)

\$84,000.00 - University of California, Lawrence Livermore National Laboratory, Livermore, California, Decentralized/Relegated Control of a Class of Large Scale Systems, Department of Electrical Engineering (U. Ozguner), 1 December 1986 through 31 December 1987. (Project 765215 - Continuation)

\$75,700.00 - Midwest Research Institute, Golden, Colorado, An Experimental Investigation of the Unsteady Aerodynamic Characteristics of Wind Turbine Airfoils, Department of Aeronautical and Astronautical Engineering (G. M. Gregorek), 1 June 1987 through 31 July 1988. (Project 765348 - Continuation)

\$75,000.00 - Herman Frasch Foundation, Washington, D.C., Anaerobic Metabolism in Echinochloa crus-galli (Barnyard Grass) Seeds, Department of Horticulture - OARDC and Department of Horticulture (R. A. Kennedy), 1 July 1987 through 30 June 1992. (Project 766180 - New)

\$72,460.00 - Ministry of Education, Republic of Korea, Seoul, Korea, Korean Science Teacher Institute - 1987, Department of Educational Theory and Practice (V. J. Mayer), 1 June 1987 through 30 June 1988. (Project 766096 - Continuation)

\$68,000.00 - American Cancer Society, Inc., New York, New York, Biochemical Pharmacology of New Aromatase Inhibitors for Treatment of Estrogen-Dependent Cancers, College of Pharmacy (R. W. Brueggemeier), 1 July 1987 through 30 June 1988. (Project 764529 - Continuation)

\$48,486.00 - Georgia Department of Education, Atlanta, Georgia, A Design for a Management Information System, The National Center for Research in Vocational Education (R. D. Ryan, Jr.), 26 June 1987 through 30 June 1988. (Project 766181 - New)

September 3 and 4, 1987 meeting, Board of Trustees

REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)

THE OHIO STATE UNIVERSITY RESEARCH FOUNDATION (contd)

Other Non-Federal Research Contracts/Grants (contd)

\$41,216.00 - Inter-University Program for Latino Research, The University of Texas-Austin, Austin, Texas, The Hispanic Immigrant Context and Housing Market Conditions: A Comparison of Anglo- and Hispanic Populations, Department of Sociology (L. J. Krivo), 1 June 1987 through 30 September 1988. (Project 766154 - New)

\$37,000.00 - United States Olympic Committee, Colorado Springs, Colorado, Glycogen Depletion: A Possible Cause of Overtraining for Rowing, School of Health, Physical Education, and Recreation (W. M. Sherman), 1 October 1987 through 30 September 1988. (Project 766134 - New)

\$35,000.00 - Food and Agriculture Organization, Rome, Italy, Identification of Genomic Alterations in Plant Tissue After Long-Term Storage of Seed, Department of Agronomy - OARDC and Department of Agronomy (J. C. Kamalay), 1 July 1987 through 30 June 1988. (Project 766128 - New)

\$33,000.00 - American Heart Association, Dallas, Texas, Kinetic Studies of Xanthine Oxidase, Department of Physiological Chemistry (C. R. Hille), 1 July 1987 through 30 June 1988. (Project 765543 - Continuation)

\$30,000.00 - Council on Legal Education Opportunity, Washington, D.C., 1987 Summer Institute, College of Law (L. Pernell), 22 June 1987 through 31 October 1987. (Project 766162 - New)

\$27,000.00 - Muscular Dystrophy Association, New York, New York, Probing Z-line Composition and Structure: Novel Approaches, Department of Veterinary Anatomy (M. Yamaguchi), 1 July 1987 through 30 June 1988. (Project 766182 - New)

\$25,017.00 - American Diabetes Association, Inc., Alexandria, Virginia, Effect of Acute Exercise on Skeletal Muscle Insulin Resistance in the Obese Zucker Rat, School of Health, Physical Education, and Recreation (W. M. Sherman), 1 July 1987 through 30 June 1988. (Project 766133 - New)

\$25,000.00 - American Heart Association, Central Ohio Heart Chapter, Inc., Columbus, Ohio, Young Investigator Award, Department of Pathology (P. B. Baker), 1 July 1987 through 30 June 1988. (Project 765493 - Continuation)

\$25,000.00 - American Heart Association, Central Ohio Heart Chapter, Inc., Columbus, Ohio, Influence of Isordil and Hydralazine on Circulatory Power -- Young Investigator Award, Department of Internal Medicine (P. F. Binkley), 1 July 1987 through 30 June 1988. (Project 766149 - New)

\$25,000.00 - American Heart Association, Central Ohio Heart Chapter, Inc., Columbus, Ohio, Heart Respiratory Control by Cytochrome C Oxidase Structure -- Young Investigator Award, Department of Physiological Chemistry (F. G. Fiamingo), 1 July 1987 through 30 June 1988. (Project 766150 - New)

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REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)

THE OHIO STATE UNIVERSITY RESEARCH FOUNDATION (contd)

Other Non-Federal Research Contracts/Grants (contd)

\$25,000.00 - American Heart Association, Central Ohio Heart Chapter, Inc., Columbus, Ohio, Sabbatical Supplementation, Department of Physiology (A. L. Kunz), 1 September 1987 through 31 August 1988. (Project 766140 - New)

\$25,000.00 - American Otological Society, Inc., Minneapolis, Minnesota, Otosclerosis: Morphological, Histochemical, and Cell Culture Studies, Department of Otolaryngology, (D. J. Lim), 1 July 1987 through 30 June 1988. (Project 766196 - Continuation)

\$25,000.00 - American Heart Association, Central Ohio Heart Chapter, Inc., Columbus, Ohio, Model of Adrenergic Hypersensitivity After Beta-Blockade, College of Pharmacy (J. J. Lima), 1 July 1987 through 30 June 1988. (Project 766142 - New)

\$25,000.00 - American Heart Association, Central Ohio Heart Chapter, Inc., Columbus, Ohio, Verapamil Isomer Dynamics/Kinetics Following Racemate Intake, College of Pharmacy (J. J. MacKichan), 1 July 1987 through 30 June 1988. (Project 766137 - New)

\$25,000.00 - American Heart Association, Central Ohio Heart Chapter, Inc., Columbus, Ohio, Smokeless Tobacco and Blood Pressure in Males Ages 13-25, Oral Biology (K. Schroeder) and School of Health, Physical Education, and Recreation (M. S. C. Chen), 1 July 1987 through 30 June 1988. (Project 766117 - Continuation)

\$24,600.00 - The Columbus Foundation, Columbus, Ohio, Education for NonViolent Management of Child Behavior, College of Medicine - Administration (G. L. Trzebiatowski), 1 June 1987 through 31 May 1988. (Project 766152 - New)

\$24,360.00 - The Rockefeller Foundation, New York, New York, The Impact of Financial Aid for Graduate Study for Black Students, Department of Black Studies (J. N. Upton), 1 September 1987 through 31 August 1988. (Project 766176 - New)

\$23,000.00 - American Heart Association, Central Ohio Heart Chapter, Inc., Columbus, Ohio, Influence of Isordil and Hydralazine on Circulatory Power, Department of Internal Medicine (P. F. Binkley and C. V. Leier), 1 July 1987 through 30 June 1988. (Project 766146 - New)

\$23,000.00 - American Heart Association, Central Ohio Heart Chapter, Inc., Columbus, Ohio, Parvalbumin Facilitated Relaxation in Single Muscle Cells, Department of Physiology (J. A. Rall), 1 July 1987 through 30 June 1988. (Project 766125 - New)

\$23,000.00 - American Heart Association, Central Ohio Heart Chapter, Inc., Columbus, Ohio, Fluorescence Measurements in Calcium Tolerant Myocytes, Department of Physiology (B. T. Stokes), 1 July 1987 through 30 June 1988. (Project 766109 - Continuation)

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REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)

THE OHIO STATE UNIVERSITY RESEARCH FOUNDATION (contd)

Other Non-Federal Research Contracts/Grants (contd)

\$22,000.00 - American Heart Association, Central Ohio Heart Chapter, Inc., Columbus, Ohio, Metabolism of Myocytes Isolated from Hyperthyroid Adult Rats, Department of Internal Medicine (R. A. Altschuld), 1 July 1987 through 30 June 1988. (Project 766136 - New)

\$22,000.00 - American Heart Association, Central Ohio Heart Chapter, Inc., Columbus, Ohio, Does Lack of Oxygen Limit Maximum Force in Fatigued Diaphragm?, Department of Internal Medicine (T. L. Clanton), 1 July 1987 through 30 June 1988. (Project 766145 - New)

\$22,000.00 - American Heart Association, Central Ohio Heart Chapter, Inc., Columbus, Ohio, Molecular Genetics of the Human Heart, Department of Genetics (S. Falkenthal), 1 July 1987 through 30 June 1988. (Project 766116 - Continuation)

\$20,000.00 - American Parkinson's Disease Association, New York, New York, Potential Experimental Therapies to Modify the Course of Parkinson's Disease, Department of Pharmacology (M. H. Neff), 1 July 1987 through 30 June 1988. (Project 765585 - Continuation)

\$18,250.00 - Arthritis Foundation, Central Ohio Chapter, Columbus, Ohio, Immunoregulation and Autoimmunity, Department of Internal Medicine (R. L. Whisler), 1 April 1987 through 31 March 1988. (Project 760620 - Continuation)

\$18,000.00 - American Heart Association, Central Ohio Heart Chapter, Inc., Columbus, Ohio, Hypothalamic Neuronal Sensitivity in Hypertensive Rats, Department of Physiology (J. A. Boulant), 1 October 1987 through 30 September 1988. (Project 766141 - New)

\$18,000.00 - American Heart Association, Central Ohio Heart Chapter, Inc., Columbus, Ohio, Heart Respiratory Control by Cytochrome C Oxidase Structure, Department of Physiological Chemistry (F. G. Fiamingo), 1 July 1987 through 30 June 1988. (Project 766144 - New)

\$18,000.00 - American Heart Association, Central Ohio Heart Chapter, Inc., Columbus, Ohio, Intracoronary Nitroglycerin in PTCA: Effects on Collaterals, Department of Internal Medicine (R. D. Magorien and J. P. Bacon), 1 July 1987 through 30 June 1988. (Project 766148 - New)

\$18,000.00 - American Heart Association, Central Ohio Heart Chapter, Inc., Columbus, Ohio, Characterization of Blood Vessel Abnormalities in Vasculitis, Department of Neurology (J. R. Mendell), 1 July 1987 through 30 June 1988. (Project 766185 - New)

\$18,000.00 - American Heart Association, Central Ohio Heart Chapter, Inc., Columbus, Ohio, Hypertonic Sodium Chlorine in Shock: Venous Return and Lung Reflexes, Department of Veterinary Clinical Sciences (W. M. Muir III and E. R. Schertel), 1 July 1987 through 30 June 1988. (Project 766130 - New)

September 3 and 4, 1987 meeting, Board of Trustees

REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)

THE OHIO STATE UNIVERSITY RESEARCH FOUNDATION (contd)

Other Non-Federal Research Contracts/Grants (contd)

\$18,000.00 - Nine Members of the National Entrepreneurship Education Consortium, National Entrepreneurship Education Consortium, The National Center for Research in Vocational Education (R. D. Ryan, Jr.), 1 July 1986 through 30 June 1987. (Project 765533 - Continuation)

\$18,000.00 - American Heart Association, Central Ohio Heart Chapter, Inc., Columbus, Ohio, Electrophysiologic Effect of Procainamide-NAPA Interaction, Department of Internal Medicine (S. F. Schaal), 1 July 1987 through 30 June 1988. (Project 766151 - New)

\$18,000.00 - American Heart Association, Central Ohio Heart Chapter, Inc., Columbus, Ohio, Cell Surface Control of Smooth Muscle Differentiation, Department of Anatomy (A. R. Strauch), 1 July 1987 through 30 June 1988. (Project 766123 - New)

\$17,499.00 - American Lung Association of Ohio, Columbus, Ohio, Effect of Cigarette Smoking on Cell-Mediated Elastolysis and on the Anti-Elastase Capacity in the Lower Respiratory Tract, Department of Internal Medicine (M. D. Wewers), 1 July 1987 through 30 June 1988. (Project 766165 - New)

\$15,000.00 - American Heart Association, Ohio Affiliate, Inc., Columbus, Ohio, Role of Mitochondrial Acetyl Cobalt A Carboxylase in Fat Synthesis, Department of Food Science and Nutrition - OARDC and Department of Food Science and Nutrition (J. B. Allred), 1 July 1987 through 30 June 1988. (Project 766078 - New)

\$15,000.00 - American Heart Association, Central Ohio Heart Chapter, Inc., Columbus, Ohio, Anion Transport in Isolated Cardiac Myocytes, Department of Physiological Chemistry (G. P. Brierley and M. H. Davis), 1 July 1987 through 30 June 1988. (Project 766147 - New)

\$15,000.00 - American Heart Association, Ohio Affiliate, Inc., Columbus, Ohio, Frequency Analysis of First Heart Sound Related to dP/dt, Department of Veterinary Physiology and Pharmacology (R. L. Hamlin), 1 July 1987 through 30 June 1988. (Project 766135 - New)

\$15,000.00 - American Heart Association, Central Ohio Heart Chapter, Inc., Columbus, Ohio, Thoracic Pressure and Ventricular Work in Congestive Failure, School of Allied Medical Professions (R. D. Tallman, Jr.), 1 July 1987 through 30 June 1988. (Project 766124 - New)

\$14,958.00 - University of Wisconsin, Madison, Wisconsin, Midwest Universities Consortium for International Affairs Program in Geodesy, Surveying, Photogrammetry and Cartography, Department of Geodetic Science and Surveying (I. I. Mueller), 15 June 1987 through 18 August 1987. (Project 766159 - New)

\$14,445.00 - American Heart Association, Central Ohio Heart Chapter, Inc., Columbus, Ohio, Hypertonic Sodium Chlorine in Shock: Venous Return and Lung Reflexes, Department of Veterinary Clinical Sciences (W. W. Muir III), 1 July 1987 through 30 June 1988. (Project 766129 - New)

September 3 and 4, 1987 meeting, Board of Trustees

REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)

THE OHIO STATE UNIVERSITY RESEARCH FOUNDATION (contd)

Other Non-Federal Research Contracts/Grants (contd)

\$14,356.00 - University of Wisconsin, Madison, Wisconsin, Midwest Universities Consortium for International Affairs Program in Geodesy, Surveying, Photogrammetry and Cartography, Department of Geodetic Science and Surveying (I. I. Mueller), 1 July 1987 through 30 September 1987. (Project 766158 - New)

\$14,000.00 - The Samuel Roberts Noble Foundation, Inc., Ardmore, Oklahoma, Studies of Macrophage Biology, Department of Microbiology (B. S. Zwilling), 1 June 1987 through 31 May 1988. (Project 766172 - New)

\$13,875.00 - American Heart Association, Ohio Affiliate, Inc., Columbus, Ohio, Effect of Calcium++ Antagonists on Mitochondrial Malic Enzyme, Department of Food Science and Nutrition - OARDC and Department of Food Science and Nutrition (K. L. Roehrig), 1 July 1987 through 30 June 1988. (Project 766186 - New)

\$12,040.00 - American Lung Association of Ohio, Columbus, Ohio, The Effect of Oxidant Injury on Oxygen Uptake-Oxygen Delivery Relationships in the Isolated Perfused Liver, Department of Internal Medicine (P. M. Dorinsky), 1 July 1987 through 30 June 1988. (Project 766166 - New)

\$10,000.00 - AO-Stiftung/ASIF-Foundation, Bern, Switzerland, Testing of Compatibility and Surface Conditions of New Titanium Alloys in Dogs, Department of Veterinary Clinical Sciences (M. L. Olmstead), 1 March 1987 through 30 September 1989. (Project 765900 - Continuation)

\$10,000.00 - Institute of International Education, New York, New York, Preservice and Inservice Teacher Education Fellowship Program -- Sri Lanka, The National Center for Research in Vocational Education, (R. D. Ryan, Jr.), 1 June 1987 through 31 October 1987. (Project 766190 - New)

\$10,000.00 - Martha Holden Jennings Foundation, Cleveland, Ohio, A Proposal to Improve Middle School Science Education in Mansfield, Mansfield Campus (J. Z. Tarino), 1 June 1987 through 30 June 1988. (Project 766101 - New)

\$7,692.00 - University of Wisconsin, Madison, Wisconsin, MUCIA/Indonesia Higher Education Project, Academic Affairs Administration (D. G. McCloud), 20 May 1987 through 30 September 1987. (Project 763978 - Continuation)

\$6,900.00 - Richland County Foundation, Mansfield, Ohio, A Proposal to Improve Middle School Science Education in Mansfield, Mansfield Campus (J. Z. Tarino) 1 June 1987 through 30 June 1988. (Project 766099 - New)

\$6,800.00 - Ohio River Basin Consortium, Columbus, Ohio, Ohio River Basin Consortium Agreement, School of Natural Resources and Department of Natural Resources - OARDC (C. B. Davis), 1 July 1987 through 30 June 1988. (Project 765812 - Continuation)

\$6,227.00 - United Nations, Geneva, Switzerland, Evaluation of Active Immunization with Synthetic Peptides of hCG as a Fertility Control

September 3 and 4, 1987 meeting, Board of Trustees

REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)

THE OHIO STATE UNIVERSITY RESEARCH FOUNDATION (contd)

Other Non-Federal Research Contracts/Grants (contd)

Method, Department of Obstetrics and Gynecology (V. C. Stevens), 1 July 1986 through 30 June 1987. (Project 760113 - Continuation)

\$5,115.00 - The Edgar W. Ingram Foundation, Columbus, Ohio, The Critical Thinking Conference for Franklin County Junior and Senior High School Faculty and Staff, University College Administration (K. Laroe), 1 June 1987 through 31 December 1988. (Project 766178 - New)

\$5,000.00 - The Columbus Foundation, Columbus, Ohio, Kurt Jooss' The Green Table, Department of Dance (O. Blum), 1 December 1987 through 31 May 1988. (Project 766173 - New)

\$5,000.00 - University of Nebraska-Lincoln, Lincoln, Nebraska; and State of Ohio, Department of Education, Columbus, Ohio, National Career Guidance Consortium, The National Center for Research in Vocational Education (R. D. Ryan, Jr.), 1 July 1986 through 30 June 1987. (Project 765651 - Continuation)

\$3,000.00 - Infectious Diseases Society of America, Houston, Texas, President's Office of Infectious Diseases Society of America, Department of Internal Medicine (C. M. Kunin), 1 May 1987 through 30 April 1988. (Project 766110 - New)

\$2,928.00 - Arts Midwest, Minneapolis, Minnesota, Bill T. Jones/Arnie Zane and Company, Mershon Auditorium (T. M. Van Leer), 28 January 1988 through 29 January 1988. (Project 766100 - New)

\$2,000.00 - The Community College of the Air Force, Maxwell Air Force Base, Alabama, National Postsecondary Alliance, The National Center for Research in Vocational Education (R. D. Ryan, Jr.), 1 July 1986 through 30 June 1987. (Project 765434 - Continuation)

\$2,000.00 - Brevard Community College, Cocoa, Florida, National Alliance of Community and Technical Colleges, The National Center for Research in Vocational Education (R. D. Ryan, Jr.), 1 July 1987 through 30 June 1988. (Project 766171 - Continuation)

\$1,000.00 - Florida Department of Education, Tallahassee, Florida, National Entrepreneurship Education Consortium, The National Center for Research in Vocational Education (R. D. Ryan, Jr.), 1 July 1986 through 30 June 1987. (Project 765533 - Continuation)

\$500.00 - Northern Arizona University, Flagstaff, Arizona; and University of Nebraska-Lincoln, Lincoln, Nebraska, National Career Guidance Consortium, The National Center for Research in Vocational Education (R. D. Ryan, Jr.), 1 July 1986 through 30 June 1987. (Project 765651 - Continuation)

TOTAL - OTHER NON-FEDERAL AWARDS

\$2,217,578.00

September 3 and 4, 1987 meeting, Board of Trustees

REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)

ENGINEERING EXPERIMENT STATION

State Sponsored Research and Development

\$64,430.00 - The Ohio Department of Transportation, Columbus, Ohio, "A Study of Accident Experience in Construction and Maintenance Zones," Department of Civil Engineering, 1 July 1987 through 1 November 1988. (529732)

\$50,000.00 - Thomas A. Edison Program, Columbus, Ohio, and Plaskolite, Inc., Columbus, Ohio, "Optimization of Poly (methyl methacrylate) Bulk Polymerization," Department of Chemical Engineering, 1 June 1987 through 31 May 1988. (529731)

TOTAL - STATE SPONSORED RESEARCH \$ 114,430.00

Industrial and Other Sponsored Research and Development

\$90,393.00 - from 39 sponsors of 60 development projects under the direction of 5 department/research areas.

\$74,413.00 - Scientific Atlanta, Norcross, Georgia, "Research, Development and Measurement of a Target Support Pylon Terminator," Department of Electrical Engineering, 15 June 1987 through 14 November 1987. (312419)

\$53,250.00 - Edison Material Technology Center (EMTEC), Kettering, Ohio, "Macro and Microsegregation in Aluminum Alloy Castings," Department of Metallurgical Engineering, 15 May 1987 through 30 April 1989. (312423)

(\$52,500.00) - Funding transferred to The Ohio State University Research Foundation. Project transferred because of sponsor's request that project be "classified." (312414)

\$40,000.00 - from various industry for membership fees in the "Compact Range Consortium," Department of Electrical Engineering, 1 July 1987 through 30 June 1988. (312884)

\$36,000.00 - Edison Materials Technology Center (EMTEC), Kettering, Ohio, "Net Shape Manufacturing/Sheet Metal Forming," Department of Metallurgical Engineering, 1 April 1987 through 31 March 1988. (312417)

\$30,000.00 - Chemical Abstracts Service, Columbus, Ohio, "Design of General Hierarchy Interface System," Department of Industrial and Systems Engineering, 1 March 1987 through 30 September 1987. (312418)

\$28,900.00 - In second year funding from General Electric, Cincinnati, Ohio, "Fiber Matrix Interface in Oxide-Fiber Reinforced Ceramics," Department of Ceramic Engineering, 6 March 1986 through 31 December 1987. (529702, Ext. 2)

\$23,628.00 - Embassy of the Arab Republic of Egypt, Washington, DC, "Peace Fellows Shiha Elsa Mahfouz, Fathi Amer and Fawzy El Gamal," Department of Electrical Engineering, 1 June 1987 through 30 May 1988. (312420)

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REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)

ENGINEERING EXPERIMENT STATION (contd)

Industrial and Other Sponsored Research and Development (contd)

\$23,000.00 - Additional funding from Southwest Research Institute, San Antonio, Texas, "A Fracture Mechanics Assessment of the Slow Crack Growth Test for Polyethylene Gas Pipes," Department of Engineering Mechanics, 15 April 1987 through 30 June 1987. (529727, Ext. 1)

\$10,809.00 - Embassy of the Arab Republic of Egypt, Washington, DC, "Peace Fellow Mohamed El Sherbini," Department of Chemical Engineering, 1 June 1987 through 30 May 1988. (312421)

\$10,010.00 - Additional funding from Battelle/GRI, Columbus, Ohio, "Heat Exchanger and Cycle Analysis for an Internal Combustion Engine Heat Pump," Department of Mechanical Engineering, 1 September 1986 through 31 December 1987. (312891, Ext. 1)

\$5,000.00 - Edison Welding Institute, Columbus, Ohio, "Development of Nondestructive Testing Techniques for Steel Water Heaters," Department of Welding Engineering, 15 May 1987 through 31 July 1987. (529730)

\$4,000.00 - from various industry for membership in "The Engineering Research Center on Net-Shape Manufacturing," Engineering Experiment Station. (529200)

TOTAL - INDUSTRIAL AND OTHER SPONSORED RESEARCH \$ 376,903.00

THE OHIO STATE UNIVERSITY DEVELOPMENT FUND

Establishment of Named Fund

**The Huntington National Bank Fellows in
International Business and Foreign Language Study**

The Huntington National Bank Fellows in International Business and Foreign Language Study was established September 4, 1987, by the Board of Trustees of The Ohio State University with gift(s) to The Ohio State University Development Fund from The Huntington National Bank of Columbus, Ohio.

All gifts are to be invested in the University's Permanent Endowment Fund, under the rules and regulations adopted by the Board of Trustees of The Ohio State University, with the right to invest and reinvest as occasion dictates.

The annual income shall be used to permit students majoring in the humanities with interest and supporting work in international business and trade to spend an academic year abroad to strengthen their fluency in a foreign language, knowledge of a foreign culture, and understanding of the workings and environment of international commerce.

At the time of application, students must: 1) be sophomores or juniors at The Ohio State University; 2) have completed a minimum of the first two years (six quarters or four semesters) of OSU foreign language study or its equivalent; and 3) have been admitted to, and be participants in good standing in the OSU "Capstone" program.

September 3 and 4, 1987 meeting, Board of Trustees

REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)

THE OHIO STATE UNIVERSITY DEVELOPMENT FUND (contd)

Establishment of Named Fund (contd)

**The Huntington National Bank Fellows in
International Business and Foreign Language Study (contd)**

The program will be coordinated through the OSU Foreign Language Center. Working with the home department, the appropriate foreign language department, the OSU Office of International Programs, and advisers from the community and the OSU College of Business, the Foreign Language Center and student applicants will identify programs in the country of choice that will provide both linguistic and academic advancement as well as work or internship-type experiences in the formal commercial business environment.

The first Huntington National Bank Fellows in International Business and Foreign Language Study Award will be made during the second year of the endowment. Awards of up to \$8,000 will be made every year thereafter. These awards will cover travel, tuition, and living costs, and will be made annually.

It is the desire of the donors that this fund should benefit the University in perpetuity. If the need for this fund should cease to exist or so diminish as to provide unused income, then another use shall be designated by the Board of Trustees in order to carry out the desire of the donors.

Change of Name and Description of Named Fund

Ralph and Estel Wenrick Scholarship Fund

The Ralph and Estelle Wenrick Scholarship Fund was established September 6, 1985, by the Board of Trustees of The Ohio State University with gifts to The Ohio State University Development Fund from Marilyn P. Wenrick, B.S.Bus.Adm. '56, in memory of her parents, Ralph and Estel Wenrick. The name and description were changed September 4, 1987.

All gifts are to be invested in the University's permanent endowment fund, under the rules and regulations adopted by the Board of Trustees of The Ohio State University with the right to invest and reinvest as occasion dictates.

The annual income shall be used for scholarship awards to students attending The Ohio State University who have demonstrated (1) financial need, or (2) high degree of academic potential, or (3) scholastic ability, with priority of said three criteria to be in order as numerically indicated, who graduated from Tecumseh High School located in Clark County, Ohio. Selection of the award recipients shall be made by the University Committee on Student Financial Aid in consultation with the donor. Should the income from this fund not be awarded in any given year, then the income is to be added to the fund's principal.

Should Tecumseh High School cease to exist, then the award recipients shall be selected from students who have graduated from high school and

September 3 and 4, 1987 meeting, Board of Trustees

REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)

THE OHIO STATE UNIVERSITY DEVELOPMENT FUND (contd)

Change of Name and Description of Named Fund (contd)

Ralph and Estel Wenrick Scholarship Fund (contd)

who are from the same geographical district where students lived and attended Tecumseh High School. If no students apply for scholarship awards from the fund for a period of ten (10) consecutive years, then the income from this fund may be used for purposes consistent with the express wishes of the donor until such time as said students do apply.

Should the need for these scholarships cease to exist or so diminish as to provide unused income, then the income may be used for any purpose whatsoever as determined by the Board of Trustees, with preference being given to recommendations from the appropriate administrative official of the University who is then directly responsible for student financial aids.

Change in Description of Named Funds

The Joseph B. Collinson Scholarship Fund

The Joseph B. Collinson Scholarship Fund was established June 11, 1981, by the Board of Trustees of The Ohio State University with a gift to The Ohio State University from Tectron Corporation of Providence, Rhode Island. The description was changed September 4, 1987.

All gifts are to be invested in the University's permanent endowment fund, under the rules and regulations adopted by the Board of Trustees of The Ohio State University with the right to invest and reinvest as occasion dictates.

The annual income shall be used to provide a scholarship for an accounting student completing the junior year who has indicated an intent to go on with graduate studies in accounting; achieved outstanding academic rank and provided concrete evidence of leadership. The selection of the recipient is to be made upon the recommendation of the selection committee, consisting of the Chairperson of the Academic Faculty of Accounting, a member of the Accounting Faculty teaching in the Honors Program, and the Adviser of the Student Accounting Association. The recipient is not required to take his or her graduate studies at The Ohio State University.

Should the need for these scholarships cease to exist or so diminish as to provide unused income, then the income may be used for any purpose whatsoever as determined by the Board of Trustees, with preference being given to recommendations from the appropriate administrative official of the University who is then directly responsible for accounting education.

Mary C. and Ezra Place Scholarship

The Mary C. and Ezra Place Scholarship was established September 2, 1971, by the Board of Trustees of The Ohio State University with a bequest

September 3 and 4, 1987 meeting, Board of Trustees

REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)

THE OHIO STATE UNIVERSITY DEVELOPMENT FUND (contd)

Change in Description of Named Funds (contd)

Mary C. and Ezra Place Scholarship (contd)

through the Development Fund from Mr. and Mrs. Ezra C. Place, late of Lima, Ohio. The description was changed September 4, 1987.

All gifts are to be invested in the University's permanent endowment fund, under the rules and regulations adopted by the Board of Trustees of The Ohio State University with the right to invest and reinvest as occasion dictates.

The annual income shall be used to award four scholarships of \$1,500.00 each to qualified students at the Lima Campus, or its successor, to be selected by the Trustees. Selection shall be made on the basis of merit, with preference being given to graduates of Lima Senior High School, Lima, Ohio; Shawnee High School, Lima, Ohio; Elida High School, Elida, Ohio; Bath High School, Lima, Ohio; and Perry High School, Lima, Ohio. Said scholarships may be granted to those graduates of the above mentioned schools who desire to attend any college or department of the University or any technical or trade school which may be a part of, or operated by or in connection therewith.

Payments shall be made from income, but the University may, in the discretion of the Trustees, invade the corpus to accomplish the purpose expressed herein.

THE OHIO STATE UNIVERSITY RESEARCH FOUNDATION

Report - July 1987

Federal Research Contracts/Grants

\$2,170,397.00 - Department of Health and Human Services, Public Health Service, National Institutes of Health, Bethesda, Maryland, OSU Comprehensive Cancer Center Support (Core) Grant, Cancer Research Center (D. S. Yohn), 1 July 1987 through 30 June 1988. (Project 763976 - Continuation)

\$1,025,639.00 - Department of Education, Office of Special Education and Rehabilitation Services, Washington, D.C., Regional Resource Center, College of Education Administration (T. M. Stephens), 1 June 1987 through 31 May 1988. (Project 766183 - Continuation)

\$564,660.00 - Department of Health and Human Services, Public Health Service, Health Resources and Services Administration, Rockville, Maryland, Mental Retardation Training, Nisonger Center (G. E. Martin), 1 July 1987 through 30 June 1988. (Project 761169 - Continuation)

\$253,184.00 - National Science Foundation, Washington, D.C., Acquisition of a Fully Automated, Five Spectrometer Electron Probe Microanalyzer, Department of Geology and Mineralogy (M. Barton), 15 July 1987 through 31 December 1988. (Project 766262 - New)

September 3 and 4, 1987 meeting, Board of Trustees

REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)

THE OHIO STATE UNIVERSITY RESEARCH FOUNDATION (contd)

Federal Research Contracts/Grants (contd)

\$175,000.00 - Department of Health and Human Services, Office of Human Development Services, Administration on Developmental Disabilities, Kansas City, Missouri, UAF (University Affiliated Facility) Administration and Operation, Nisonger Center (S. R. Schroeder), 1 July 1987 through 30 June 1988. (Project 763712 - Continuation)

\$167,044.00 - Department of Education, Office of Postsecondary Education, Washington, D.C., Upward Bound Program, Office of Minority Affairs (L. G. Morrow), 1 September 1987 through 31 August 1988. (Project 765655 - Continuation)

\$161,308.00 - Department of Health and Human Services, Public Health Service, National Institutes of Health, Bethesda, Maryland, Molecular and Function Analysis of Human Class 1 Heparin-Binding Growth Factor, Department of Internal Medicine and Cancer Research Center (I. M. Chiu), 1 July 1987 through 30 June 1988. (Project 766083 - New)

\$146,413.00 - Department of Health and Human Services, Public Health Service, National Institutes of Health, Bethesda, Maryland, Stereochemistry of Enzyme Reactions to Phosphorus, Department of Chemistry (M. D. Tsai), 1 July 1987 through 30 June 1988. (Project 762722 - Continuation)

\$139,796.00 - Department of Health and Human Services, Public Health Service, National Institutes of Health, Bethesda, Maryland, Imidazoline Analogs as Probes of A-Adrenoceptors, College of Pharmacy (D. D. Miller, P. N. Patil and D. R. Feller), 1 August 1987 through 31 July 1988. (Project 763483 - Continuation)

\$136,441.00 - Department of Health and Human Services, Public Health Service, National Institutes of Health, Bethesda, Maryland, Cholinergic Systems and 1-methyl-4-phenyl-1,2,3,6-tetrahydropyridine (MPTP), Department of Pharmacology (N. H. Neff and M. H. Neff), 1 July 1987 through 30 June 1988. (Project 766209 - New)

\$130,096.00 - Department of Education, Rehabilitation Services Administration, Chicago, Illinois, Training Grant in Physical Medicine and Rehabilitation, Department of Physical Medicine (E. W. Johnson), 1 September 1987 through 31 August 1988. (Project 765014 - Continuation)

\$121,897.00 - Department of Health and Human Services, Public Health Service, National Institutes of Health, Bethesda, Maryland, Glycoconjugates and Glioma Resistance to Cytolysis, Department of Pathology (A. J. Yates), 1 August 1987 through 31 July 1988. (Project 762989 - Continuation)

\$116,749.00 - Department of Health and Human Services, Public Health Service, National Institutes of Health, Bethesda, Maryland, Developmental Plasticity of Descending Spinal Pathways, Department of Anatomy (G. F. Martin, Jr.), 1 July 1987 through 30 June 1988. (Project 766115 - New)

September 3 and 4, 1987 meeting, Board of Trustees

REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)

THE OHIO STATE UNIVERSITY RESEARCH FOUNDATION (contd)

Federal Research Contracts/Grants (contd)

\$107,106.00 - Department of Health and Human Services, Public Health Service, National Institutes of Health, Bethesda, Maryland, Cardiac Dysfunction and Sudden Death Modified by Exercise, Department of Physiology (G. E. Billman), 1 July 1987 through 30 June 1988. (Project 765510 - Continuation)

\$100,253.00 - Department of Health and Human Services, Public Health Service, National Institutes of Health, Bethesda, Maryland, Physiological Analysis of Optic Nerve Disease, College of Optometry (P. E. King-Smith), 1 August 1987 through 31 July 1988. (Project 763996 - Continuation)

\$94,000.00 - Department of Health and Human Services, Public Health Service, Alcohol, Drug Abuse and Mental Health Administration, Bethesda, Maryland, Training in Community Management of EDNR Children, Nisonger Center (D. Hammer) and Department of Pediatrics (J. A. Mulick), 1 August 1987 through 30 June 1988. (Project 765745 - Continuation)

\$93,462.00 - Department of Health and Human Services, Public Health Service, National Institutes of Health, Bethesda, Maryland, Neural Basis of Taste Elicited Ingestion and Rejection, Oral Biology (J. B. Travers), 1 August 1987 through 31 July 1988. (Project 765695 - Continuation)

\$90,638.00 - Department of Health and Human Services, Public Health Service, National Institutes of Health, Bethesda, Maryland, Uteroferrin Gene Expression During Fetal and Placental Development, Department of Animal Science - OARDC (R. C. M. Simmen), 1 July 1987 through 30 June 1988. (Project 765565 - Continuation)

\$85,190.00 - National Science Foundation, Washington, D.C., Gaseous and Aqueous Corrosion of Ceramics, Department of Ceramic Engineering (D. W. Readey), 1 July 1987 through 31 December 1988. (Project 765380 - Continuation)

\$85,000.00 - National Science Foundation, Washington, D.C., Magnetic Domain Wall Resonance and the Electric Field Shift of the Ferromagnetic, Department of Physics (P. E. Wigen), 1 July 1987 through 31 December 1988. (Project 766253 - New)

\$80,954.00 - Department of Health and Human Services, Public Health Service, National Institutes of Health, Bethesda, Maryland, Corneal Endothelial Pleomorphism from Contact Lenses, College of Optometry (J. P. Schoessler), 1 August 1987 through 31 July 1988. (Project 764852 - Continuation)

\$80,852.00 - Department of Health and Human Services, Public Health Service, National Institutes of Health, Bethesda, Maryland, Transfusion Medicine Academic Award NHLBI, Department of Pathology (M. S. Kennedy), 1 August 1987 through 31 July 1988. (Project 764898 - Continuation)

\$80,241.00 - Department of Health and Human Services, Public Health Service, National Institutes of Health, Bethesda, Maryland, Ethology of

September 3 and 4, 1987 meeting, Board of Trustees

REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)

THE OHIO STATE UNIVERSITY RESEARCH FOUNDATION (contd)

Federal Research Contracts/Grants (contd)

Blood/Sugar Antagonism in Mosquitoes, Department of Entomology (W. A. Foster), 1 September 1987 through 31 August 1988. (Project 766238 - New)

\$77,615.00 - Department of Health and Human Services, Public Health Service, National Institutes of Health, Bethesda, Maryland, Aberrant Papovavirus Replication After Genotoxic Damage, Department of Radiology (R. M. Snapka), 1 July 1987 through 31 May 1988. (Project 766206 - New)

\$72,886.00 - Department of Health and Human Services, Public Health Service, National Institutes of Health, Bethesda, Maryland, The Chemistry of Biologically Relevant Quinone Imines, Department of Chemistry (J. S. Swenton), 1 August 1987 through 31 July 1988. (Project 765570 - Continuation)

\$72,000.00 - National Science Foundation, Washington, D.C., Productive Versus Non-Productive Binding Kinases, Department of Chemistry (M. D. Tsai), 1 September 1987 through 28 February 1989. (Project 765630 - Continuation)

\$69,677.00 - Department of Health and Human Services, Public Health Service, National Institutes of Health, Bethesda, Maryland, Regulation of Human Decidual Prolactin, Department of Internal Medicine (R. D. Jackson), 1 July 1987 through 30 June 1988. (Project 766234 - New)

\$61,000.00 - National Science Foundation, Washington, D.C., Statistical Studies of the Genetic Effects Caused by Population Bottlenecks, Department of Molecular Genetics (P. A. Fuerst), 1 November 1987 through 31 October 1988. (Project 764659 - Continuation)

\$60,792.00 - Department of Health and Human Services, Public Health Service, National Institutes of Health, Bethesda, Maryland, Calcium and Calmodulin in Smooth Muscle Contraction, Department of Physiological Chemistry (J. D. Johnson), 1 July 1987 through 30 June 1988. (Project 764737 - Continuation)

\$60,609.00 - Department of Health and Human Services, Public Health Service, National Institutes of Health, Bethesda, Maryland, Specific Analysis of Cardiac Glycosides in Patient Serum, College of Pharmacy (R. H. Reuning), 1 July 1987 through 30 June 1988. (Project 765511 - Continuation)

\$59,883.00 - National Aeronautics and Space Administration, Langley Research Center, Hampton, Virginia, Space Station Antenna Design Studies, Department of Electrical Engineering, ElectroScience Laboratory (E. H. Newman), 1 June 1987 through 31 May 1988. (Project 761012 - Continuation)

\$56,489.00 - Department of Health and Human Services, Public Health Service, National Institutes of Health, Bethesda, Maryland, Collaborative Ocular Melanoma Study -- Clinical Center, Department of Ophthalmology (F. H. Davidorf), 1 August 1987 through 31 July 1988. (Project 765050 - Continuation)

September 3 and 4, 1987 meeting, Board of Trustees

REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)

THE OHIO STATE UNIVERSITY RESEARCH FOUNDATION (contd)

Federal Research Contracts/Grants (contd)

\$52,553.00 - National Science Foundation, Washington, D.C., Turbidity and Open-Water Planktivores: Their Influence on Size-Structured Interactions Among Centrarchid Fishes, Department of Zoology (R. A. Stein), 1 August 1987 through 31 July 1989. (Project 766271 - New)

\$52,490.00 - National Aeronautics and Space Administration, Goddard Space Flight Center, Greenbelt, Maryland, Improvement of the Earth's Gravity Field from Terrestrial and Satellite Data, Department of Geodetic Science and Surveying (R. H. Rapp), 1 August 1987 through 31 July 1988. (Project 760056 - Continuation)

\$50,000.00 - National Aeronautics and Space Administration, Lewis Research Center, Cleveland, Ohio, Adaptive Arrays for Satellite Communication, Department of Electrical Engineering, ElectroScience Laboratory (I. J. Gupta), 20 July 1987 through 20 December 1987. (Project 764040 - Continuation)

\$50,000.00 - Department of the Navy, Office of Naval Research, Arlington, Virginia, Problems in Unsteady Boundary Layer Theory and Scattering Theory, Department of Mathematics (G. Majda), 1 September 1986 through 31 August 1987. (Project 765969 - New)

\$49,610.00 - National Aeronautics and Space Administration, Langley Research Center, Hampton, Virginia, Research on Analysis of Large Aperture Reflector Antennas, Department of Electrical Engineering, ElectroScience Laboratory, (R. Rudduck), 28 May 1987 through 31 August 1988. (Project 763724 - Continuation)

\$48,811.00 - Department of Health and Human Services, Public Health Service, National Institutes of Health, Bethesda, Maryland, Isokinetic Analysis of Inspiratory Muscle Function, Department of Internal Medicine (T. L. Clanton), 1 July 1987 through 30 June 1988. (Project 764819 - Continuation)

\$46,286.00 - Department of Energy, Argonne, Illinois, Molecular Orbital Studies of the Bonding in Heavy Element Organometallics, Department of Chemistry (B. Bursten), 1 July 1987 through 30 June 1988. (Project 765484 - Continuation)

\$45,360.00 - National Science Foundation, Washington, D.C., Estimating Equilibrium Search Models, Center for Human Resource Research (K. I. Wolpin), 15 July 1987 through 30 June 1988. (Project 766228 - New)

\$44,000.00 - National Science Foundation, Washington, D.C., Engineering Research Equipment Grant: Laser Raman Spectrometer, Department of Chemical Engineering (U. Ozkan), 15 July 1987 through 31 December 1988. (Project 766232 - New)

\$34,900.00 - National Science Foundation, Washington, D.C., Research in Algebraic and Differential Topology, Department of Mathematics (R. M. Charney and M. W. Davis), 1 July 1987 through 31 December 1988. (Project 765576 - Continuation)

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REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)

THE OHIO STATE UNIVERSITY RESEARCH FOUNDATION (contd)

Federal Research Contracts/Grants (contd)

\$33,902.00 - Department of Health and Human Services, Public Health Service, National Institutes of Health, Bethesda, Maryland, Escherichia coli Verotoxins and HEp-2 Adhesion, Department of Veterinary Preventive Medicine (C. R. Dorn), 1 September 1987 through 31 August 1988. (Project 766222 - New)

\$31,250.00 - National Science Foundation, Washington, D.C., Research Experiences of Undergraduates: Site at The Ohio State University, Department of Chemistry (R. M. Mayer), 1 July 1987 through 31 December 1988. (Project 766230 - New)

\$30,000.00 - National Science Foundation, Washington, D.C., Bulk Metal Particle -- Superconducting Ceramic Composite, Department of Physics (J. C. Garland), 15 July 1987 through 31 December 1988. (Project 766246 - New)

\$29,740.00 - National Science Foundation, Washington, D.C., Paleobotany in Antarctica and Its Relationship to Reconstructions of Gondwanaland, Byrd Polar Research Center (T. N. Taylor and E. L. Taylor) and Department of Botany (T. N. Taylor), 1 August 1987 through 31 July 1988. (Project 766268 - New)

\$25,000.00 - Department of the Army, Army Research Office, Research Triangle Park, North Carolina, The Chemistry of Hexaazotriphenylene Hexanitile, A Polyfunctional Heterocycle with Potential Utility in the Formulation of Thermostable Polymers, Department of Chemistry (A. W. Czarnik), 1 August 1987 through 30 November 1987. (Project 764885 - Continuation)

\$25,000.00 - National Science Foundation, Washington, D.C., Presidential Young Investigator Award, Department of Civil Engineering (M. R. McCord), 15 July 1987 through 31 December 1988. (Project 766242 - New)

\$24,500.00 - National Aeronautics and Space Administration, Goddard Space Flight Center, Greenbelt, Maryland, Emission-Line Region Variability: Optical and Ultraviolet Emission-Line Variability in the Seyfert I Galaxy, Department of Astronomy (B. M. Peterson and G. J. Ferland), 1 August 1987 through 31 July 1988. (Project 765542 - Continuation)

\$19,844.00 - Department of the Air Force, Air Force Systems Command, Bolling Air Force Base, D.C., Motion and Stability of Saturated Soil Systems Under Dynamic Loading, Department of Civil Engineering (W. E. Wolfe and R. S. Sandhu), 15 July 1987 through 29 February 1988. (Project 763420 - Continuation)

\$19,681.00 - National Science Foundation, Washington, D.C., Purchase of an Electron Paramagnetic Resonance Spectrometer, Department of Physiological Chemistry, (C. R. Hille), 1 July 1987 through 31 December 1989. (Project 766221 - New)

\$19,583.00 - National Science Foundation, Washington, D.C., Contributions to the Study of the Non-Commutative Chern Character, Department of

September 3 and 4, 1987 meeting, Board of Trustees

REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)

THE OHIO STATE UNIVERSITY RESEARCH FOUNDATION (contd)

Federal Research Contracts/Grants (contd)

Mathematics (H. Moscovici), 15 July 1987 through 30 September 1988.
(Project 766273 - New)

\$17,500.00 - Department of the Air Force, Air Force Systems Command, Bolling Air Force Base, D.C., Theory System Reliability Demonstration and Burn-in Design, Department of Statistics (S. Blumenthal), 1 August 1987 through 31 October 1987. (Project 766252 - New)

\$10,022.00 - Department of Health and Human Services, Public Health Service, National Institutes of Health, Bethesda, Maryland, Platelet Ionized Calcium Aggregometer, Model 660 and PC-Based Molecular Modeling System, College of Pharmacy (D. S. Pathak), 1 July 1987 through 30 June 1988. (Project 766203 - New)

\$9,997.00 - Department of the Army, Army Corps of Engineers, Fort Belvoir, Virginia, Investigation of Alternate Methods of Collecting Global Positioning Survey Data, Department of Geodetic Science and Surveying (C. C. Goad), 13 July 1987 through 12 September 1987. (Project 766243 - New)

\$5,000.00 - Department of Health and Human Services, Public Health Service, National Institutes of Health, Bethesda, Maryland, Small Instrumentation Program, College of Optometry (F. W. Hebbard), 1 August 1987 through 31 July 1988. (Project 766263 - New)

\$4,500.00 - National Aeronautics and Space Administration, Lewis Research Center, Cleveland, Ohio, Nuclear Irradiation, Engineering Experiment Station (J. W. Tainagi), 1 December 1986 through 30 November 1987. (Project 766179 - New)

\$4,000.00 - National Science Foundation, Washington, D.C., Relativistic Optical Model at Intermediate Energies, Department of Physics (B. C. Clark), 1 July 1987 through 31 December 1988. (Project 765350 - Continuation)

\$4,000.00 - National Science Foundation, Washington, D.C., Structure, Dynamic Behavior, and Synthesis of Selected Solvated Carbanionic Substances, Department of Chemistry (G. A. Fraenkel), 1 June 1987 through 31 May 1988. (Project 765472 - Continuation)

\$4,000.00 - National Science Foundation, Washington, D.C., A Cooperative Paleoclimatic Study of the Dundee Ice Cap and Its Relationship to Global Climatic Variability, Byrd Polar Research Center (L. G. Thompson and E. Mosley-Thompson), 1 May 1987 through 30 April 1988. (Project 765310 - Continuation)

\$2,600.00 - National Science Foundation, Washington, D.C., Synthetic Catalysts Based on Reversible Covalent Bond Formation, Department of Chemistry (A. W. Czarnik), 1 June 1987 through 31 August 1988. (Project 765171 - Continuation)

September 3 and 4, 1987 meeting, Board of Trustees

REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)

THE OHIO STATE UNIVERSITY RESEARCH FOUNDATION (contd)

Federal Research Contracts/Grants (contd)

Computer Time - National Science Foundation, Washington, D.C., Development and Applications of Fully Symmetry-Adapted Electronic Structure Programs, Department of Chemistry (R. M. Pitzer), 15 June 1987 through 15 June 1988. (Project 766270 - New) (Approximate Dollar Value - \$18,000)

TOTAL - FEDERAL AWARDS

\$7,591,400.00

State of Ohio Research Contracts/Grants

\$762,705.42 - State of Ohio, Department of Education, Columbus, Ohio, Vocational Education Contracts - C - Vocational Education Support, College of Education - Administration (J. J. Buffer), 1 July 1987 through 30 June 1988. (Project 766249 - New)

\$568,968.55 - State of Ohio, Department of Education, Columbus, Ohio, Vocational Education Contracts - D - General Vocational Support, College of Education - Administration (J. J. Buffer), 1 July 1987 through 30 June 1988. (Project 766250 - New)

\$556,878.80 - State of Ohio, Department of Education, Columbus, Ohio, Vocational Education Contracts - E - Instructional Materials Lab, College of Education - Administration (J. J. Buffer), 1 July 1987 through 30 June 1988. (Project 766251 - New)

\$447,445.61 - State of Ohio, Department of Education, Columbus, Ohio, Vocational Education Contracts - B - Research Coordination, College of Education Administration (J. J. Buffer), 1 July 1987 through 30 June 1988. (Project 766248 - New)

\$256,750.00 - State of Ohio, Department of Education, Columbus, Ohio, Southwest Vocational Education Personnel Development Regional Center, Department of Agricultural Education (R. K. Barrick and L. H. Newcomb), Department of Educational Policy and Leadership (A. J. Miller) and Department of Home Economics Education (S. V. Redick), 1 July 1987 through 30 June 1988. (Project 766226 - New)

\$247,890.62 - State of Ohio, Department of Education, Columbus, Ohio, Vocational Education Contracts - A - Teacher Education (Itinerant), Department of Educational Theory and Practice (A. J. Miller and G. Jarvis), 1 July 1987 through 30 June 1988. (Project 766247 - New)

\$222,000.00 - State of Ohio, Department of Natural Resources, Columbus, Ohio, Ecology and Population Dynamics of Lake Erie Fishes, Department of Zoology (T. A. Bookhout), 1 July 1987 through 30 June 1988. (Project 766201 - New)

\$218,000.00 - State of Ohio, Department of Natural Resources, Columbus, Ohio, Evaluation of Fish Management Techniques, Department of Zoology (T. A. Bookhout, R. A. Stein and D. A. Culver) and Department of Natural Resources (D. L. Johnson), 1 July 1987 through 30 June 1988. (Project 766202 - New)

September 3 and 4, 1987 meeting, Board of Trustees

REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)

THE OHIO STATE UNIVERSITY RESEARCH FOUNDATION (contd)

State of Ohio Research Contracts/Grants (contd)

\$214,750.00 - State of Ohio, Department of Education, Columbus, Ohio, Central Vocational Education Personnel Development Regional Center, Department of Agricultural Education (R. K. Barrick and L. H. Newcomb), Department of Educational Policy and Leadership (A. J. Miller) and Department of Home Economics Education (S. V. Redick), 1 July 1987 through 30 June 1988. (Project 766218 - New)

\$59,670.00 - State of Ohio, Department of Education, Columbus, Ohio, State Superintendent's Task Force for Preparing Special Education Personnel, College of Education - Administration (T. M. Stephens), 1 July 1987 through 30 June 1988. (Project 766265 - Continuation)

\$52,574.00 - State of Ohio, Department of Natural Resources, Columbus, Ohio, Elimination of Water Pollution by Controlled Flooding of Abandoned Underground Coal Mines, Division of Mining Engineering (J. Gozon, S. S. Lukovic, C. J. Konya and R. G. Lundquist), Department of Civil Engineering (V. T. Ricca) and Department of Chemical Engineering (E. E. Smith), 9 July 1987 through 8 August 1988. (Project 766233 - New)

\$2,375.00 - State of Ohio, Department of Human Services, Columbus, Ohio, Assessment and Placement Issues Involved in Adoption of Developmentally Disabled Children, Nisonger Center (S. R. Schroeder), 1 June 1987 through 30 September 1987. (Project 766229 - New)

\$500.00 - State of Ohio, Department of Development, Columbus, Ohio, Characterization of Tissue Specific Drug Delivery Liposomes, Electron Microscope Laboratory - OARDC (R. E. Whitmoyer), 1 April 1986 through 31 May 1987. (Project 765221 - Continuation)

\$402.81 - State of Ohio, Department of Education, Columbus, Ohio, Ohio Education Deans' Task Force Project, Department of Human Services Education (T. M. Stephens), 1 July 1986 through 30 June 1987. (Project 764196 - Continuation)

TOTAL - STATE OF OHIO AWARDS **\$3,610,910.81**

Industrial Research Contracts/Grants

\$220,273.00 - Upjohn Company, Kalamazoo, Michigan, Acute Hemodynamic Study of Single, Oral Doses of Nicorandil in Patients with Congestive Heart Failure Using Right Heart Catheterization, Department of Internal Medicine (C. V. Leier), 1 July 1987 through 30 June 1989. (Project 766256 - New)

\$70,000.00 - Land-O-Lakes Research Farm, Webster City, Iowa, Immune Responses to Rotavirus in Cows and Passive Protection in Calves, Food Animal Health and Research Program - OARDC (L. J. Saif), 1 July 1987 through 30 June 1988. (Project 766223 - New)

\$41,957.00 - General Electric Company, Mojave, California, A Model Test Program for the Thrust Reverser Hot Gas Deflector System, Department of Aeronautical and Astronautical Engineering (R. J. Freuler), 15 July 1987 through 6 October 1987. (Project 766239 - New)

September 3 and 4, 1987 meeting, Board of Trustees

REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)

THE OHIO STATE UNIVERSITY RESEARCH FOUNDATION (contd)

Industrial Research Contracts/Grants (contd)

\$34,000.00 - Duphar, B.V., Weesp, Holland, Duphar-PTRI Collaborative Research, College of Pharmacy (D. T. Witiak), 1 July 1987 through 30 June 1988. (Project 766114 - New)

\$16,310.00 - FMC Corporation, Philadelphia, Pennsylvania, Micro-crystalline Cellulose Stabilized Emulsions, College of Pharmacy (S. Frank), 15 May 1987 through 14 May 1988. (Project 764077 - Continuation)

\$15,730.00 - Fidia, Abano Terme (PD), Italy, Consequences of Administering Ganglioside (GM1) or Synthetic Ganglioside (AGF2) After 1-methyl-4-phenyl-1,2,3,6-tetrahydropyridine (MPTP) Induced Neurotoxicity, Department of Pharmacology (N. H. Neff), 1 April 1986 through 31 March 1988. (Project 765423 - Continuation)

\$15,200.00 - Warner-Lambert Company, Ann Arbor, Michigan, Immunosuppression Studied on Pentostatin, Department of Internal Medicine (E. H. Kraut), 1 June 1987 through 30 September 1988. (Project 766208 - New)

\$11,000.00 - International Clinical Laboratories, Inc., Nashville, Tennessee, Feasibility Study on the Application of the Scanning Laser Imaging Instrument for Quantitative Immunofluorescence Analysis of Biological Material, Cancer Research Center (L. D. Tomei), Department of Veterinary Pathobiology (J. R. Blakeslee), Department of Internal Medicine (M. F. Para) and College of Pharmacy (J. M. Jagadeesh), 1 March 1987 through 31 August 1987. (Project 766007 - Continuation)

\$10,000.00 - Agri-Diagnostics Associates, Cinnaminson, New Jersey, A Monoclonal Antibody Based Sero-diagnostic Assay to Detect Xanthomonas campestris pv. pelargonii in Bacterial Wilt Infected Geraniums, Department of Plant Pathology - OARDC and Department of Plant Pathology (S. T. Nameth), 1 July 1987 through 30 June 1988. (Project 766217 - New)

\$7,200.00 - Eli Lilly and Company, Indianapolis, Indiana, Eli Lilly Predoctoral Fellowship, Department of Physiology (J. D. Wood), 1 September 1987 through 31 August 1988. (Project 766236 - New)

\$4,641.00 - AT&T Bell Laboratories, Columbus, Ohio, Improving the Written Communication Skills of Nonnative Speakers of English in the Work Setting Through Individualized Tutorial, Department of English/Second Language (R. N. Kantor), 1 July 1987 through 30 September 1987. (Project 766216 - Continuation)

\$3,434.00 - Apple Computer, Inc., Cupertino, California, Apple Classroom of Tomorrow, Department of Educational Theory and Practice (R. J. Tierney), 1 June 1987 through 31 May 1988. (Project 766266 - New)

Equipment - Trimble Navigation, Limited, Sunnyvale, California, Center for Commercialization of Space Membership Agreement, Center for Mapping (J. D. Bossler), 1 July 1987 through 30 June 1992. (Project 766219 - New) (Approximate Dollar Value - \$195,750)

TOTAL - INDUSTRIAL AWARDS

\$ 449,745.00

September 3 and 4, 1987 meeting, Board of Trustees

REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)

THE OHIO STATE UNIVERSITY RESEARCH FOUNDATION (contd)

Other Non-Federal Research Contracts/Grants

\$453,497.00 - University of Pennsylvania, Philadelphia, Pennsylvania, Conducting Electronic Polymers by Non-Redox Processes Synthesis, Physical Studies and Application, Department of Physics (A. J. Epstein), 1 March 1987 through 30 September 1987. (Project 765670 - Continuation)

\$232,340.00 - Brookhaven National Laboratory, Upton, Long Island, New York, Boron-Neutron Capture Therapy of Cancer, Department of Pathology (R. F. Barth), College of Pharmacy (A. H. Soloway), Department of Mechanical Engineering (T. Aldemir and T. E. Blue), Department of Neurology (N. R. Clendenon) and Department of Surgery (J. H. Goodman), 19 May 1987 through 31 December 1987. (Project 766081 - New)

\$80,000.00 - The Rockefeller Foundation, New York, New York, International Network on Antibiotic Use, Department of Internal Medicine (C. M. Kumin), 1 July 1987 through 30 June 1988. (Project 765560 - Continuation)

\$50,000.00 - American Cancer Society, New York, New York, American Cancer Society Institutional Research Grant, Cancer Research Center (D. S. Yohn), 1 July 1987 through 30 June 1988. (Project 764472 - Continuation)

\$48,184.00 - Battelle Memorial Institute, Columbus, Ohio, Chronic Toxicity Tests of Sodium Fluoride -- Histopathology of Teeth and Bones, Department of Veterinary Pathobiology (S. E. Weisbrode), 1 October 1985 through 14 May 1988. (Project 765113 - Continuation)

\$47,282.00 - University of Washington, Seattle, Washington, Communicative Interactions in Main Stream Settings, Nisonger Center (S. R. Schroeder), 1 July 1987 through 30 June 1988. (Project 766225 - New)

\$37,500.00 - University of Rochester, Rochester, New York, Parkinson's Study Group, Department of Neurology (G. W. Paulson), 1 April 1987 through 31 March 1988. (Project 766244 - New)

\$35,998.00 - University of Maine at Orono, Orono, Maine, Glaciological Work at the Jakobshavns Glacier Area of Greenland, Byrd Polar Research Center (D. H. Elliot and H. H. Brecher), 1 May 1987 through 30 April 1988. (Project 764717 - Continuation)

\$32,594.00 - University of California, Santa Barbara, California, The Processing and Mechanical Properties of High Performance Materials, Department of Metallurgical Engineering (J. P. Hirth), 15 March 1987 through 14 October 1987. (Project 765876 - Continuation)

\$27,200.00 - March of Dimes Birth Defects Foundation, White Plains, New York, Molecular Studies of Type II DNA Topoisomerases from Avian Embryos and Tumor Cells: Gyration of Active Genes, Department of Microbiology (M. T. Muller), 1 July 1987 through 30 June 1988. (Project 765564 - Continuation)

\$25,812.00 - American Institute of Indian Studies, Minneapolis, Minnesota, American Institute of Indian Studies Center for Art and

September 3 and 4, 1987 meeting, Board of Trustees

REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)

THE OHIO STATE UNIVERSITY RESEARCH FOUNDATION (contd)

Other Non-Federal Research Contracts/Grants (contd)

Archaeology, Department of History of Art (S. L. Huntington), 1 January 1987 through 31 August 1987. (Project 766037 - Continuation)

\$25,000.00 - American Society for Mass Spectroscopy, East Lansing, Michigan, Supercritical Fluid -- Electrospray Ionization Mass Spectroscopy, Department of Chemistry (S. V. Olesik), 1 June 1987 through 31 May 1988. (Project 766204 - New)

\$25,000.00 - American Heart Association, Central Ohio Heart Chapter, Inc., Columbus, Ohio, Heart Z-line: Quantitative Determination of Proteins, Department of Veterinary Anatomy (M. Yamaguchi), 1 October 1987 through 30 September 1988. (Project 766235 - New)

\$23,802.00 - Argonne National Laboratory, Argonne, Illinois, An Internship Program on the Three-Dimensional Single Phase Thermal Hydrolysis Code COMMIX-1A, Department of Mechanical Engineering (T. Aldemir), 24 June 1987 through 15 July 1988. (Project 766210 - New)

\$22,000.00 - American Heart Association, Central Ohio Heart Chapter, Inc., Columbus, Ohio, Total Artificial Heart: Central and Peripheral Vascular Effects, Department of Surgery (K. D. Murray) and Department of Internal Medicine (P. F. Binkley), 1 July 1987 through 30 June 1988. (Project 766227 - New)

\$22,000.00 - Eleven Members of the National Alliance of Community and Technical Colleges, The National Center for Research in Vocational Education (R. D. Ryan, Jr.), 1 July 1987 through 30 June 1988. (Project 766171 - Continuation)

\$18,533.00 - Ohio Cancer Research Associates, Columbus, Ohio, Development of Solid-Phase Immunoassays for Human Deoxynucleoside Kinase Isoenzymes, Department of Biochemistry (D. Ives), 1 July 1987 through 30 June 1988. (Project 765465 - Continuation)

\$17,202.00 - Ohio Cancer Research Associates, Columbus, Ohio, Cyclic AMP Dependent Protein Kinase, Regulation of Macrophage Antitumor Activity, Department of Microbiology (B. S. Zwilling), 1 July 1987 through 30 June 1988. (Project 765470 - Continuation)

\$16,074.00 - American Lung Association of Ohio, Columbus, Ohio, The Role of Work Related Factors and Coping Responses in Tobacco Abstinence, Department of Life Span Process (M. E. Wewers), 1 July 1987 through 30 June 1988. (Project 766237 - New)

\$15,000.00 - Deafness Research Foundation, New York, New York, Fourth International Symposium and Research Conference on Otitis Media, Department of Otolaryngology (D. J. Lim), 18 May 1987 through 30 September 1987. (Project 766213 - New)

\$15,000.00 - Cooley's Anemia Foundation, Inc., New York, New York, Characterization of Large Deletion of Alpha-thalassemias, Department of Biochemistry (E. F. Vanin), 1 July 1987 through 30 June 1988. (Project 766264 - New)

September 3 and 4, 1987 meeting, Board of Trustees

REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)

THE OHIO STATE UNIVERSITY RESEARCH FOUNDATION (contd)

Other Non-Federal Research Contracts/Grants (contd)

\$14,498.00 - North Carolina Department of Public Education, Raleigh, North Carolina, Consortium for the Development of Professional Materials for Vocational Education, The National Center for Research in Vocational Education (R. D. Ryan, Jr.), 15 September 1987 through 30 June 1988. (Project 766255 - Continuation)

\$12,425.00 - Yassenoff Foundation, Columbus, Ohio, Using Robotic Devices as Physical and Cognitive Prosthetic Aids, Department of Educational Theory and Practice (R. Howell), 1 August 1987 through 31 July 1988. (Project 766267 - New)

\$10,864.00 - University of Wisconsin-Madison, Madison, Wisconsin, Midwest Universities Consortium for International Activities, Inc. -- Indonesia Program in Geodesy, Surveying, Photogrammetry and Cartography, Department of Geodetic Science and Surveying (I. I. Mueller), 1 July 1987 through 31 August 1987. (Project 765395 - Continuation)

\$10,000.00 - North Central Regional Educational Laboratory, Elmhurst, Illinois, Coordination and Documentation of Major Reform Efforts in Teacher Education in the Midwest, College of Education - Administration (D. P. Anderson), 1 July 1986 through 30 June 1987. (Project 766259 - New)

\$10,000.00 - American Cancer Society, Ohio Division, Inc., Cleveland, Ohio, Genetic Analysis of Continuous Expression of I-A by Mononuclear Phagocytes, Department of Microbiology (B. S. Zwillig), 1 July 1987 through 30 June 1988. (Project 766220 - New)

\$9,291.00 - American Cancer Society, Ohio Division, Inc., Cleveland, Ohio, Evaluation of Interleukin-2 and Cyclophosphamide in the Treatment of Minimal Residual Disease Metastatic to Liver, Department of Surgery (J. Minton), 1 July 1987 through 30 June 1988. (Project 766260 - New)

\$6,210.00 - Technical Foundation of America, San Marcos, Texas, The History of Industrial Education: Videotaped Interviews with Retired Leaders, Department of Educational Theory and Practice (E. K. Blankenbaker), 1 July 1987 through 31 December 1988. (Project 766211 - New)

\$5,418.00 - American Lung Association of Ohio, Columbus, Ohio, The Effect of Oxidant Injury on Oxygen Uptake-Oxygen Delivery Relationships in the Isolated Perfused Liver, Department of Internal Medicine (P. M. Dorinsky), 1 July 1987 through 30 June 1988. (Project 766166 - Continuation)

\$5,000.00 - Emergency Medicine Foundation, Dallas, Texas, The Effect of Norepinephrine on Regional Myocardial and Cerebral Blood Flow During Cardiopulmonary Resuscitation, Department of Preventive Medicine (C. G. Brown), 1 July 1987 through 30 June 1988. (Project 766231 - New)

\$5,000.00 - American College of Clinical Pharmacy Research Institute, Kansas City, Missouri, The Effect of Interferon on Antipyrine Metabolism

September 3 and 4, 1987 meeting, Board of Trustees

REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)

THE OHIO STATE UNIVERSITY RESEARCH FOUNDATION (contd)

Other Non-Federal Research Contracts/Grants (contd)

in Man, College of Pharmacy (J. A. Reitz), 1 July 1987 through 30 June 1988. (Project 766215 - New)

\$5,000.00 - American Heart Association, Ohio Affiliate, Inc., Columbus, Ohio, Atrial Natriuretic Peptide Pre- and Post-Cardiac Treatment, Department of Internal Medicine (D. V. Unverferth), 1 July 1987 through 30 June 1988. (Project 766241 - New)

\$2,000.00 - California State Beekeepers Association, Inc., Red Bluff, California, A Genetic Study of Honey Bee Resistance to the Tracheal Mite Acarapis woodi, Department of Entomology (R. E. Page, Jr.), 1 June 1987 through 31 May 1988. (Project 766214 - New)

\$2,000.00 - Commonwealth of Virginia, State Board of Education, Richmond, Virginia, National Entrepreneurship Education Consortium, The National Center for Research in Vocational Education (R. D. Ryan, Jr.), 1 July 1987 through 30 June 1988. (Project 766207 - Continuation)

\$1,748.00 - Franklin County Mental Retardation and Developmental Disabilities Board, Columbus, Ohio, Early Childhood Classes, Nisonger Center (S. R. Schroeder), 1 October 1986 through 30 September 1987. (Project 765358 - Continuation)

\$504.00 - Cancer Therapy and Research Foundation of South Texas, San Antonio, Texas, Multidisciplinary Participation in the Cancer Control Activities of the Southwest Oncology Group, Department of Internal Medicine (S. P. Balcerzak), 1 February 1985 through 30 June 1988. (Project 765208 - Continuation)

TOTAL - OTHER NON-FEDERAL AWARDS \$1,369,976.00

ENGINEERING EXPERIMENT STATION

Industrial and Other Sponsored Research and Development

\$50,000.00 - EMTEC, Kettering, Ohio, "Composite Surface Coatings for Metals," Department of Metallurgical Engineering, 15 June 1987 through 15 December 1988. (312422)

\$50,000.00 - Edison Welding Institute, Columbus, Ohio, "Evaluation of Weldability Testing Equipment," Department of Welding Engineering, 1 July 1987 through 30 June 1988.

\$45,413.00 - from 40 sponsors of 49 development projects in 2 research areas of the College of Engineering.

\$44,150.00 - Edison Welding Institute, Columbus, Ohio, "Welding Thermoplastics," Department of Welding Engineering, 1 July 1987 through 30 June 1988. (529287)

\$40,790.00 - Edison Welding Institute, Columbus, Ohio, "Joining of Metal Matrix Composites," Department of Welding Engineering, 1 July 1987 through 30 June 1988. (529286)

September 3 and 4, 1987 meeting, Board of Trustees

REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)

ENGINEERING EXPERIMENT STATION (contd)

Industrial and Other Sponsored Research and Development (contd)

\$38,500.00 - Edison Welding Institute, Columbus, Ohio, "Mechanisms of Adhesion on Ceramic Joints," Department of Ceramic Engineering, 1 July 1987 through 30 June 1988. (529277)

\$31,000.00 - Edison Welding Institute, Columbus, Ohio, "Investigation of Sub GTAW Process," Department of Welding Engineering, 1 July 1987 through 30 June 1988. (529289)

\$30,000.00 - Edison Welding Institute, Columbus, Ohio, "Fluid Flow Modeling," Department of Mechanical Engineering, 1 July 1987 through 30 June 1988. (529285)

\$22,000.00 - Edison Welding Institute, Columbus, Ohio, "Hydrogen Cracking in Low Carbon Steels," Department of Welding Engineering, 1 July 1987 through 30 June 1988. (529276)

\$20,000.00 - Southwest Research Institute, San Antonio, Texas, "A Fracture Mechanics Assessment of the Slow Crack Growth Test for Polyethylene Gas Pipes," Department of Engineering Mechanics, 15 April 1987 through 15 August 1987. (529727 - Ext. 2)

TOTAL - INDUSTRIAL AND OTHER SPONSORED RESEARCH **\$ 371,853.00**

THE OHIO STATE UNIVERSITY DEVELOPMENT FUND

Establishment of Named Funds

The Denver Collins, Jr., Scholarship Fund

The Denver Collins, Jr., Scholarship Fund was established September 4, 1987, by the Board of Trustees of The Ohio State University with gifts from the Collins family in honor of their father, Denver Collins, Jr. (B.C.E. '56).

All gifts are to be invested in the University's permanent endowment fund, under the rules and regulations adopted by the Board of Trustees of The Ohio State University with the right to invest and reinvest as occasion dictates.

Ninety percent of the annual income shall be used to provide one or more scholarships to Ohio residents who are Civil Engineering juniors or seniors majoring in the area of construction management. Selection will be based upon leadership qualities and scholastic excellence. Seniors selected will be able to apply their awards toward their graduate engineering education at The Ohio State University, but the awards will not exceed the then current full tuition fees for undergraduates. Ten percent of the annual income and any other unused income will be reinvested in the fund's principal. Selection of the Denver Collins, Jr., Scholar will be made by the Chairperson of the Department of Civil Engineering upon recommendation of the construction engineering faculty in consultation with the University Committee on Student Financial Aid. The Civil Engineering faculty annually will notify the benefactors of The

September 3 and 4, 1987 meeting, Board of Trustees

REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)

THE OHIO STATE UNIVERSITY DEVELOPMENT FUND (contd)

Establishment of Named Funds (contd)

The Denver Collins, Jr., Scholarship Fund (contd)

Denver Collins, Jr., Scholarship Fund on the status of the fund and the use of its income. Recipients are to be named annually, but may be eligible to compete for renewed awards.

It is the desire of the donors that this fund should benefit the University in perpetuity. If the need for this fund should cease to exist or so diminish as to provide unused income, then another use shall be designated by the Board of Trustees in order to carry out the desire of the donors.

Horse Production and Management Educational Fund

The Horse Production and Management Educational Fund was established September 4, 1987, by the Board of Trustees with gifts to The Ohio State University Development Fund from alumni and friends of the Agricultural Technical Institute, Wooster, Ohio.

Horse Production and Management Technology is one of seventeen technical programs offered by the Agricultural Technical Institute and has, since its inception in 1972, provided hundreds of two-year Associate Degree graduates to employers in Ohio and throughout the United States. Students in the ATI Horse Production and Management Technology gain hands-on experience in working with all sectors of the horse industry. They utilize Standardbreds, Thoroughbreds, Quarter Horses, Arabians, Morgans, and Paints, as well as Belgians and Percherons in their studies. Students receive technical, as well as general education with emphasis on genetics and breeding, nutrition and feeding, anatomy, physiology of reproduction, breaking, training, riding, driving, stabling, grooming, and the general care of stallions, mares, and foals. Income from this Endowment will be utilized to enhance the scope and effectiveness of the ATI Horse Production and Management Program.

All gifts are to be invested in the University's permanent endowment fund, under the rules and regulations adopted by the Board of Trustees of The Ohio State University with the right to invest and reinvest as occasion dictates.

The annual income shall be used to enhance the Agricultural Technical Institute's Horse Production and Management Program and to improve the drawing power of that Program, as well as the drawing power of all areas of study at the Agricultural Technical Institute. Decisions as to use of the annual income from this fund shall be vested in the Director, Agricultural Technical Institute, following consultation with the faculty and staff of the Horse Production and Management Program.

It is the desire of the donors that this fund should benefit the University in perpetuity. If the need for this fund should cease to exist or so diminish as to provide unused income, then another use shall be designated by the Board of Trustees in order to carry out the desire of the donors.

September 3 and 4, 1987 meeting, Board of Trustees

REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)

THE OHIO STATE UNIVERSITY DEVELOPMENT FUND (contd)

Establishment of Named Funds (contd)

The William Poland Lectures in Music Theory

The William Poland Lectures in Music Theory was established September 4, 1987, by The Board of Trustees of The Ohio State University with gifts to The Ohio State University Development Fund from the family of William Poland (Ph.D. 1960), Professor Emeritus in the School of Music.

All gifts are to be invested in the University's permanent endowment fund, under the rules and regulations adopted by the Board of Trustees of The Ohio State University with the right to invest and reinvest as occasion dictates.

The annual income shall be used to provide an honorarium and expenses to one or more eminent scholars from any discipline who will lecture on a topic of critical importance to scholarship in the theory of music. The recipient(s) will be determined by the music theorists in the Division of Music Theory and Composition, in consultation with the division chairperson and the chairperson of the Cazden/Poland Collection advisory committee.

It is the desire of the donors that this fund should benefit the University in perpetuity. If the need for this fund should cease to exist or so diminish as to provide unused income, then another use shall be designated by the Board of Trustees in order to carry out the desire of the donors.

The Hermann Meyer Veterinary Anatomy Award

The Hermann Meyer Veterinary Anatomy Award was established September 4, 1987, by the Board of Trustees of The Ohio State University with gifts to The Ohio State University Development Fund from Marti Gantenbein Meyer and Hermann Meyer.

All gifts are to be invested in the University's permanent endowment fund, under the rules and regulations adopted by the Board of Trustees of The Ohio State University with the right to invest and reinvest as occasion dictates.

The annual income shall be used to provide funds for annual awards to one or more freshman veterinary students selected by the faculty members in the Department of Veterinary Anatomy and approved by the Dean of the College of Veterinary Medicine. The chosen student or students should be seriously dedicated to obtaining a thorough, sound, biomorphological background for their veterinary medical education, and have shown a genuine interest in excellent performance in veterinary anatomy during their first year at the College of Veterinary Medicine.

It is the desire of the donors that this fund should benefit the University in perpetuity. If the need for this fund should cease to exist or so diminish as to provide unused income, then another use shall be designated by the Board of Trustees in order to carry out the desire of the donors.

September 3 and 4, 1987 meeting, Board of Trustees

REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)

THE OHIO STATE UNIVERSITY FOUNDATION

Approval of Description and Establishment of Fund

The College of Nursing Endowment

The College of Nursing Endowment was established September 4, 1987, by the Board of Trustees of The Ohio State University through funds received by the University from The Ohio State University Foundation, which has established an endowed fund with gifts designated for The Ohio State University College of Nursing.

Income provided by the Foundation shall be used at the discretion of the Dean of the College of Nursing for new incentives within the college. The funds may be used for, but are not limited to, scholarships, equipment, scholastic achievement awards, and faculty/staff development or to assist in the support of a named professorship, endowed chair, visiting professorship, designated chair, designated professorship or visiting lecturer.

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**EMPLOYMENT OF ARCHITECT/ENGINEER
MENDENHALL LABORATORY RENOVATION (PLANNING ONLY)**

Resolution No. 88-21

Synopsis: Authorization to employ an architectural/engineering firm is proposed.

WHEREAS construction of additional floors for Mendenhall Laboratory is anticipated to provide more classrooms, research offices, and several laboratories for the Geology Department and Institute for Polar Studies, with some classrooms to be assigned to the classroom pool; and

WHEREAS a complete upgrading and/or replacement of all service systems and windows, together with a new chiller plant, will be necessary; and

WHEREAS \$200,000.00 will be made available from University funds for initial planning for this project with construction funds anticipated to be requested in the next biennial Higher Education Capital Improvements Bill;

NOW THEREFORE

BE IT RESOLVED, That the President and/or Vice President for Business and Administration be authorized, in accordance with established University procedures, to select a qualified architectural/engineering firm for this project and to award the necessary contracts, with all actions to be reported to this Board at the appropriate time.

Upon motion of Mrs. Bowser, seconded by Mr. Teaford, the Board of Trustees adopted the foregoing resolution by unanimous roll call vote.

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September 3 and 4, 1987 meeting, Board of Trustees

**REQUEST FOR CONSTRUCTION BIDS AND
ESTIMATE OF COST - FUNDING**

Resolution No. 88-22

Synopsis: Authorization to request construction bids is proposed.

WHEREAS the plans and specifications for these projects have been completed and, at the request of the Vice President for Business and Administration, the President recommended that the Board of Trustees authorize the request for construction bids:

**PRESSEY HALL REMODELING - PHASE II
(UNIVERSITY PRESS)**

Project: Remodel approximately 4,400 square feet on the first floor of Pressey Hall to provide space for offices and administrative functions of the University Press.

Funding: University Funds

Estimated Construction Cost: \$153,000.00

Estimated Project Cost: \$200,000.00

STARLING-LOVING HALL - AUTOPSY ROOMS

Project: Removal of inadequate HVAC and exhaust system supplying the Autopsy Rooms M-008 and M-010, and installation of a new system.

Funding: University Hospitals Funds

Estimated Construction Cost: \$160,000.00

Estimated Project Cost: \$198,150.00

KINNEAR ROAD CENTER BUILDINGS C & E - ROOF REPLACEMENT

Project: Removal of deteriorated roof and installation of a complete new roofing system.

Funding: University Funds

Estimated Construction Cost: \$158,000.00

Estimated Project Cost: \$170,000.00

LORD HALL - HEATING PLANT CONVERTER

Project: Demolition and removal of existing 20-year

September 3 and 4, 1987 meeting, Board of Trustees

**REQUEST FOR CONSTRUCTION BIDS AND
ESTIMATE OF COST - FUNDING (contd)**

LORD HALL - HEATING PLANT CONVERTER (contd)

Project (contd): old, inadequate heating equipment and
 installation of new energy efficient
 heating equipment, piping and controls.

Funding: University Funds

Estimated Construction Cost: \$108,000.00

Estimated Project Cost: \$121,000.00

NOW THEREFORE

BE IT RESOLVED, That the President and/or Vice President for Business and Administration be authorized, in accordance with established University procedures, to request construction bids on these projects, and if satisfactory bids are received, to award the necessary contracts, with all actions to be reported to this Board at the appropriate time.

Upon motion of Ms. Casto, seconded by Mr. Barone, the Board of Trustees adopted the foregoing resolution by unanimous roll call vote.

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**REPORT OF AWARD OF CONTRACTS AND
ESTABLISHMENT OF CONTINGENCY FUNDS**

Resolution No. 88-23

Synopsis: Contracts have been awarded for the projects listed below to the lowest and best bidders in accordance with University procedures.

WHEREAS resolutions adopted by the Board of Trustees at previous meetings authorized the President and/or Vice President for Business and Administration to sign the plans and specifications and, in accordance with established University procedures, to request bids and, if satisfactory bids were received, to recommend the award of contracts for the following projects:

**DOAN HALL 5 NORTH
LABORATORY/OFFICE AREAS**

Description: This project provides for the renovation of a portion of the fifth floor, north wing of Doan Hall from patient and nursery rooms into office areas and laboratories for the Chairperson of Surgery and the Chairperson of Obstetrics/Gynecology, and their laboratory personnel. Construction is scheduled to begin August 1987 and be totally completed within one hundred twenty days.

General Contract

Date Received: July 7, 1987

September 3 and 4, 1987 meeting, Board of Trustees

**REPORT OF AWARD OF CONTRACTS AND
ESTABLISHMENT OF CONTINGENCY FUNDS (contd)**

**DOAN HALL 5 NORTH
LABORATORY/OFFICE AREAS (contd)**

General Contract (contd)

No. of Bids:	8
Low Bid:	\$138,200.00
High Bid:	\$186,500.00
Estimate of Cost:	\$188,780.00
Awarded to:	Farrell Construction, Columbus, OH

Electric Contract

Date Received:	July 7, 1987
No. of Bids:	7
Low Bid:	\$ 27,600.00
High Bid:	\$ 36,300.00
Estimate of Cost:	\$ 32,680.00
Awarded to:	Functional Development, Dublin, OH

Plumbing Contract

Date Received:	July 7, 1987
No. of Bids:	3
Low Bid:	\$ 28,300.00 ⁺
High Bid:	\$ 39,239.00
Estimate of Cost:	\$ 25,661.00
Awarded to:	Farber Corporation, Columbus, OH

HVAC Contract

Date Received:	July 7, 1987
No. of Bids:	7
Low Bid:	\$ 87,300.00

⁺Plumbing Contract is in excess of filed estimate of cost; however, the total price of all contracts is within 10% of the total estimate of cost and is recommended for award as provided by Section 153.12 of the Revised Code.

September 3 and 4, 1987 meeting, Board of Trustees

REPORT OF AWARD OF CONTRACTS AND
ESTABLISHMENT OF CONTINGENCY FUNDS (contd)

DOAN HALL 5 NORTH
LABORATORY/OFFICE AREAS (contd)

HVAC Contract (contd)

High Bid:	\$124,000.00
Estimate of Cost:	\$104,690.00
Awarded to:	Farber Corporation, Columbus, OH
Total All Contracts:	\$281,400.00
Total Contingency Allowance:	\$ 22,514.30 (which is 8% of construction costs)
Total Project Cost:	\$343,550.00
Funding:	University Hospitals Funds

AGRICULTURAL TECHNICAL INSTITUTE
FACILITIES IMPROVEMENTS

Description: This project provides for repairs to the exterior masonry walls of Halterman Hall including revision of a stairway and drainage area and replacement of certain windows; installation of a section of partition in Skou Hall on the campus of Agricultural Technical Institute, Wooster; and repair work to Equine Facility located at the Wayne County Fairgrounds. Construction is scheduled to begin October 1987 and be completed within two hundred forty days.

General Contract

Date Received:	July 27, 1987
No. of Bids:	2
Low Bid:	\$ 86,829.00*
High Bid:	\$ 89,660.00*
Estimate of Cost:	\$ 96,700.00*
Awarded to:	Stanley Miller Construction, E. Sparta, OH
Total All Contracts:	\$ 86,829.00*
Total Contingency Allowance:	\$ 8,171.00 (which is 9% of construction costs)
Total Project Cost:	\$ 97,000.00
Funding:	S. B. 348

*Recommended alternates reflected in these figures.

September 3 and 4, 1987 meeting, Board of Trustees

**REPORT OF AWARD OF CONTRACTS AND
ESTABLISHMENT OF CONTINGENCY FUNDS (contd)**

NOW THEREFORE

BE IT RESOLVED, That pursuant to the actions previously authorized by the Board, the award of contracts and the establishment of project funds and contingency funds for the projects listed above are hereby approved.

Upon motion of Mrs. Bowser, seconded by Mr. Barone, the Board of Trustees adopted the foregoing resolution by unanimous roll call vote.

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**PURCHASE OF REAL PROPERTY
1.5 ACRES ADJACENT TO THE MANSFIELD REGIONAL CAMPUS
RICHLAND COUNTY, OHIO**

Resolution No. 88-24

Synopsis: Purchase of 1.5 acres adjacent to the Mansfield Regional Campus is proposed.

WHEREAS The Ohio State University has been provided with an opportunity to purchase 1.5 acres of land on the south side of State Route 39 in Richland County, Ohio, and situated northwest of, and adjacent to, the main entrance of the University's Mansfield Regional Campus; and

WHEREAS this property has an appraised value of \$2,500.00, and the owners, Charles A. and Alberta I. Parsons of Galion, Ohio, have offered to sell the property to the University at that price; and

WHEREAS funds for the purchase of this property will be provided through a gift from the John and Pearl Conard Foundation; and

WHEREAS the appropriate University officers have determined that the purchase of this property is in the best interest of the University:

NOW THEREFORE

BE IT RESOLVED, That the funds for this purchase be accepted as a gift to the University through The Ohio State University Campaign from the John and Pearl Conard Foundation; and

BE IT FURTHER RESOLVED, That the President and/or Vice President for Business and Administration be authorized to purchase, in the name of the Board of Trustees, this 1.5 acres of land at a price not to exceed \$2,500.00 and upon such terms and conditions as are deemed to be in the best interest of the University, subject to the University receiving the necessary approvals from the Ohio Board of Regents and the State Controlling Board.

Upon motion of Mr. Wolf, seconded by Mr. Barone, the Board of Trustees adopted the foregoing resolution by unanimous roll call vote.

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September 3 and 4, 1987 meeting, Board of Trustees

**EASEMENT
COLUMBUS AND SOUTHERN OHIO ELECTRIC COMPANY**

Resolution No. 88-25

Synopsis: Authorization to grant an easement to the Columbus and Southern Ohio Electric Company for installation of electric service is requested.

WHEREAS the Columbus and Southern Ohio Electric Company has requested a 15-year easement consisting of a strip of land 10 feet in width and approximately 360 feet in length for the installation of electric service at 2350 Red Rock Boulevard to service the WOSU-AM Nighttime Transmitter Park; and

WHEREAS the electric service will serve only University property; and

WHEREAS the appropriate University offices have recommended that this easement be granted:

NOW THEREFORE

BE IT RESOLVED, That the President and/or Vice President for Business and Administration be authorized to request the Deputy Director of Public Works of the Department of Administrative Services, pursuant to his statutory duties, to act for and on behalf of the University in developing the necessary legal instruments to provide for this easement.

Upon motion of Ms. Casto, seconded by Mr. Barone, the Board of Trustees adopted the foregoing resolution by unanimous roll call vote.

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REPORT - EXPENSES FOR DESIGNATED ADMINISTRATIVE OFFICIALS

Resolution No. 88-26

Synopsis: Approval for reimbursement of expenses for designated administrative officials is requested.

WHEREAS the Fiscal Affairs Committee has authorized the payment of expenses for designated administrative officials; and

WHEREAS it is deemed in the best interest of the University for the Fiscal Affairs Committee to provide from the unrestricted gifts to the University Endowment Fund on an appropriate basis, to the President and designated University officials, reimbursement for expenditures which are directly and necessarily related to the performance of their assigned responsibilities and in the best interest of the University:

NOW THEREFORE

BE IT RESOLVED, That the Fiscal Affairs Committee be authorized to provide reimbursement to designated University officials from unrestricted gifts to the University Endowment Fund.

September 3 and 4, 1987 meeting, Board of Trustees

REPORT - EXPENSES FOR DESIGNATED ADMINISTRATIVE OFFICIALS (contd)

Upon motion of Mr. Barone, seconded by Mr. Berry, the Board of Trustees adopted the foregoing resolution by unanimous roll call vote.

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President Jennings made the following statement:

Mr. Chairman, that completes my agenda. I think a couple things should be noticed, I think the Alumni Association is giving us a little hint -- if you'll notice over by the fireplace, it looks to me like there are a couple dozen roses. We appreciate your interest and we will try, no doubt, to live up to that. I think it is also appropriate to note that the University over the next two weeks will undergo a severe test of its capability and the President's capability, in view of the fact that both Mr. Scott and Mr. Jackson will be out of town and out of the country and --

Mr. Scott:

And out of the way.

President Jennings:

And probably the University will be here two weeks from now, but I am not sure of that.

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REPORT - UNIVERSITY'S INVESTMENT PORTFOLIO

Resolution No. 88-27

RESOLVED, That the report on the University's Investment Portfolio, dated August 21, 1987, as submitted to the Fiscal Affairs Committee of the Board of Trustees, be received and filed with the official records of the Board.

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**QUARTERLY REPORT -
WAIVERS OF COMPETITIVE BIDDING REQUIREMENTS**

Resolution No. 88-28

RESOLVED, That the quarterly report on the Waivers of Competitive Bidding Requirements, dated January through June 1987, as submitted to the Fiscal Affairs Committee of the Board of Trustees, be received and filed with the official records of the Board.

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September 3 and 4, 1987 meeting, Board of Trustees

Thereupon the Board adjourned to meet Thursday, October 1, 1987, at The Ohio State University Fawcett Center for Tomorrow, Columbus, Ohio, at 6:30 p.m.

Attest:

Madison H. Scott
Secretary

Leonard J. Immke
Vice Chairman

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THE OHIO STATE UNIVERSITY
OFFICIAL PROCEEDINGS OF THE
ONE THOUSAND TWO HUNDRED AND THIRTY-FOURTH MEETING
OF THE BOARD OF TRUSTEES

Columbus, Ohio, October 1 and 2, 1987

The Board of Trustees met at its regular monthly meeting on Thursday, October 1, and Friday, October 2, 1987, at The Ohio State University Fawcett Center for Tomorrow, Columbus, Ohio, pursuant to adjournment.

*	*	*
Minutes of the last meeting were approved.		
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October 1 and 2, 1987 meeting, Board of Trustees

The Chairman, Mr. Redman, called the meeting of the Board of Trustees to order on October 1, 1987, at 6:35 p.m. He requested the Secretary to call the roll. The meeting recessed into Executive Session for the purpose of considering legal issues and personnel-related matters.

Present: Edmund C. Redman, Chairman, Leonard J. Immke, Hamilton J. Teaford, John J. Barone, and Milton A. Wolf.

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Mr. Redman reconvened the meeting on October 2, 1987, at 10:20 a.m.

Present: Edmund C. Redman, Chairman, John W. Berry, Shirley D. Bowser, Hamilton J. Teaford, John J. Barone, John W. Kessler, and Milton A. Wolf.

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Mr. Redman:

Mrs. Bowser, would you like to talk about the Hospitals Board Committee?

Mrs. Bowser:

Well, I think Mr. Immke has already reported here on that subject.

Mr. Redman:

I was going to ask, Mrs. Bowser, in light of this and since we just received the written report this morning, if you could give us a recap on the important items in it.

Mrs. Bowser:

Well, this is the first time I have seen it, too. However, I have participated in these major activities. I think it's self-explanatory. Mr. Covert is here, Dr. Tzagournis is here --

Mr. Scott:

Mike, would you like to comment on this?

Mr. Covert:

Sure, let me take a minute or two. We had anticipated Mr. Immke would be here to give a brief report. I'll highlight several of the key items for you, and then if you have questions, I'd be pleased to answer them or discuss them with you.

The Hospitals Board, as indicated, did meet on September 27, and all of its appropriate subcommittees met. There were a number of items reviewed: the medical staff appointments, as well as an amendment to the Bylaws of the Medical Staff that dealt with, what we will refer to as physician extenders, physician assistants, and how they are appropriately credentialled in the Hospital setting. We heard several reports of quality assurance related activities from both the Otolaryngology, as well as our Ophthalmology Departments; and a report from Dr. Joseph Drago,

October 1 and 2, 1987 meeting, Board of Trustees

Mr. Covert: (contd)

head of the Division of Urology, talking about some of the latest developments in using lasers to crush kidney stones. I believe I saw a report in the Dispatch this morning also outlining some of that activity.

I would highlight three or four items for you. In the month of July the Hospitals exceeded their budgeted admissions by 3%, and clinic visits exceeded budget by 6%. We think this is a trend that will continue. Revenues exceeded expenses by approximately \$168,000.

The four or five items that I would bring up to you, Mr. Chairman, Members of the Board, are items of discussion on our MedOhio facilities, a report of accreditation of our rehabilitation center, as well as a brief review of the Boards' Self-Evaluation Task Force recommendations, and a brief note on the Cancer committee activities.

We reviewed a financial statement, as well as information on the first 3 1/2 months of operation. It has been our intent to establish an estimate. There are two budgets on the MedOhio, the first through June 30, and then the budget year, tied to our fiscal year, of July 1 through June 30. During that particular period of time, our budgeted visits to those facilities on a per day basis were somewhat down. Those are directly related to our use of the Reynoldsburg facility, as we had several physicians who were practicing there who left the Reynoldsburg facility just prior to our taking that over. That's a result of some concerns on their part in working with Humana and they decided to go out into private practice. So our numbers were somewhat down; you can see that in the report. We are ahead of schedule, however, in terms of our budget financially during that period of time. Budgeted losses were, in an initial three-month period, some \$56,000. After our initial takeover, our actual losses were only approximately \$24,000. I would tell you that in the actual months of July and August they have begun to turn a specific profit of approximately \$10,000-\$15,000. Overall, we think that will continue and I will continue to report on that.

Mr. Redman:

This is an area that Mr. Kessler and I are both interested in. I'm happy to hear you report that our loss wasn't as great as our budgeted loss, although this is only through June 30. Is that correct?

Mr. Covert:

That is correct. We believe that if our admissions would have actually held to what we had anticipated, if we had not seen the change in the movement of those physicians in the Reynoldsburg facility, that we would have been profitable all those particular months. Now, I will tell you that those items have been corrected and we do have stable medical staff out there at this point. That is why you have begun to see the change in July and August. But there is no question that did have an impact on us for that period of time.

October 1 and 2, 1987 meeting, Board of Trustees

Mr. Teaford:

Am I right that profit does not include capital costs?

Mr. Covert:

That's right.

Mr. Redman:

And it doesn't include interest on the investment?

Mr. Covert:

That is what we were referring to, as it is part of the endowment at this point. If that should transfer, obviously those activities would have to be accounted for and that is what we would use those surplus monies for.

Mr. Redman:

In that computation, Mr. Covert, you take no credit for any teaching service that may be rendered and we get the benefit from Humana, is that correct?

Mr. Covert:

We have not taken any teaching credits. We have not taken into account major changes and significant accounts receivable that we had also collected on Humana's behalf during that time, that is correct.

Mr. Redman:

Well, I think we should see both sides of the coin.

Mr. Covert:

I think, Mr. Chairman, we were just trying to take it in pure dollars and cents. You had a look at it from a pure viewpoint, but I will do that in the future.

If there are no other questions on that -- the other key item is that we did receive accreditation on our Rehabilitation Facility at Dodd Hall through the Commission on Accreditation of Rehabilitation Facilities. C.A.R.F. is similar to the Joint Commission on Accreditation of Hospitals, and they only look at rehab hospitals. We received a full three-year accreditation with no significant deviations. I think we are really proud of that and what the staff has been able to achieve. It makes us one of several major accredited centers in the United States at this point, and we are really pleased with that.

A couple of other items that I bring to you are that the Self-Evaluation Task Force, that was chaired by Mr. Klisares, brought a presentation together on potential reorganization of a number of the Board committees and how information is presented to them. There was an active and lively discussion in that

October 1 and 2, 1987 meeting, Board of Trustees

Mr. Covert: (contd)

regard as to how we might wish to do that in the future. It is not only a requirement from the part of the Joint Commission on Accreditation of Hospitals that we do that, but I think it was a very good exercise on our behalf as we take a look on how we operate and how we continue to function on behalf of the Board of Trustees. I think it was also an extensive discussion on the expectations of staff and myself, in terms of information being presented. I believe that there will be more discussion on that and we'll defer that piece to Mrs. Bowser as I complete the activity discussion here.

The Ad Hoc Cancer Committee of the Hospitals Board has met three times over the last month to begin to review and gear up, if you will, for the official operation of the Cancer Hospital. At that time, Dr. Tzagournis and Dr. James had an opportunity to review continuing activities in the search for the director, ongoing construction activities, financing of the operation, and analysis of support requirements. For those who are not familiar with the Committee, it is made up of Messrs. Immke, Havens, Lazarus, Duncan, and Vorys, and they will continue to meet to review all of our gearing up for operation.

Mr. Redman:

Where are we on the selection of a head for the cancer hospital?

Mr. Covert:

I believe there are ongoing discussions in that regard with one or two candidates. I don't believe that they have been finalized at this point, and I would defer to Dr. Tzagournis.

Mr. Redman:

Have you narrowed it down to one or two?

Dr. Tzagournis:

Yes.

Mr. Redman:

When will that determination be made known?

Dr. Tzagournis:

We hope this month, at the end of October.

Mr. Redman:

Really, we can't get off the ground until we get that fellow, can we? Is that a correct statement, or not? We're just brick and mortar now.

Dr. Tzagournis:

Well, we have -- Dr. James is the Medical Director, he is really

October 1 and 2, 1987 meeting, Board of Trustees

Dr. Tzagournis: (contd)

performing those functions, he is trying to get the equipment ready.

Mr. Covert:

In some of the operational areas, as you have also directed and the Hospitals Board has directed, we have been meeting to gear up operation in support of the facilities specifically. And those activities are activities that need to go on either way at this point so that we are ready to open up on day one.

The last item that was brought to the attention of the Hospitals Board was an issue on accounts receivable and some significant late payments on the part of Medicaid service in the State. We were in arrears some \$3.3 million that had been owed to us for over a year. We did ask for help from the Attorney General's Office to solicit and get the attention of the Medicaid Office to help us with that. At this point in time, less than \$1 million of that \$3.3 million is still owed to us and will be paid shortly. So, we've been pleased with that support and have received those funds.

Those are the major items of report that I would --

Mr. Redman:

Did you expand on the Humana possibility of collecting a portion of those receivables? Did you mention that?

Mr. Covert:

Yes.

Mr. Redman:

So that we expect to pick up a net of about \$300,000, is that correct?

Mr. Covert:

Potentially, I think we were looking at probably a quarter of a million for the accounts receivables on their behalf. I think they are pleased that we were willing to do that, and we have been successful.

Mr. Redman:

So to convert that to Mr. Kessler's and my concern -- our cash price was \$6.5 million?

Mr. Covert:

That is correct.

October 1 and 2, 1987 meeting, Board of Trustees

Mr. Redman:

If we applied that credit against that, we would end up with somewhere around \$6.2 million.

Mr. Covert:

That is correct. With the forgiving of loans that they have made previously to physician groups involved with that as they first got started, in terms of the actual costs to the institution and to the potential costs and to our related groups, we would be looking in the neighborhood of that purchase being \$6 million.

Mr. Redman:

Their asking price in the beginning was \$8.5 million.

Mr. Covert:

Initially, \$8.5 million, and as you recall from the discussions with Mt. Carmel and -- I think that was public knowledge -- they were looking at Mt. Carmel with \$7,750,000.00.

Mr. Redman:

Are you through with the report?

Mr. Covert:

I would defer to any questions you may have.

Mr. Redman:

I would like to ask, I'm doing all the asking here, but where are we on the helicopter?

Mr. Covert:

On the helicopter consortium -- at this point they are operational in terms of their activities.

Mr. Redman:

Who is they?

Mr. Covert:

Mt. Carmel, ourselves, St. Anthony, and Mercy are the combined participants in that group. The helicopter has just been leased, the staff put together, and it will officially begin its operation, tentatively, the first of November. I would make a comment to you that we are still in active negotiations with Grant Hospital, I think I have indicated that publicly on several occasions. We will continue to negotiate to see if we can pull ourselves together so that there is only one active service in the community. There was an opportunity through the Coalition of Cost Effectiveness group for Board Members, as well as

October 1 and 2, 1987 meeting, Board of Trustees

Mr. Covert: (contd)

representatives of the Hospitals and the President was invited to participate, to continue that ongoing activity. I think we have publicly professed, and will continue to do so, that it is our desire to pull those efforts together. If we can do so, it would be our hope to be able to achieve that in the next 30-45 days at the latest.

Mr. Redman:

So I understand then that you have finalized your contractual relations with Mt. Carmel and White Cross? No?

Mr. Covert:

St. Anthony. Yes, that has been ongoing. It is truly a consortium and if you are asking me whether or not they have come up with the cash and they have paid it, yes, they have.

Mr. Redman:

They have. Have you purchased a helicopter?

Mr. Covert:

This is not a purchase, this is a lease agreement that is from year-to-year and gives us options to continue to do that. However, the actual costs associated with that are fixed for a several-year period of time.

Mr. Redman:

But, that service would then begin, in your judgement, about November 1. Irrespective of Grant's participation or not?

Mr. Covert:

That is correct. Now, if there are opportunities for us to work together and to merge those after that, we will continue to do so.

Mr. Teaford:

Mr. Chairman, I wanted to raise one thing as a consumer of the Hospitals' services this past summer. During my stay I thought that the nursing care and doctors' care was superb and I couldn't even conceive of having any complaints about it, but the billing system still drives you up a tree. I can't even tell you how many bills that I have received because I went there. I don't know what they relate to and I don't know whether they get paid or not. We have simply got to come up with a system, so that if I go to that hospital, I get ONE bill. It is not fair to the person who is using the hospital to get the stuff you get. I have a secretary who works on trying to figure out whether I've paid, what I've paid, and so forth. She and I can't do it.

October 1 and 2, 1987 meeting, Board of Trustees

Mrs. Bowser:

The Hospitals Board has discussed this --

Mr. Redman:

I want to advise Mr. Covert that I didn't put you up to that. This was volunteered on your own.

Mr. Teaford:

No, no, nobody put me up to this. This is absolutely my own comment. But, I think we really have to move on that.

Mrs. Bowser:

We really have been working on this.

Dr. Tzagournis:

Mr. Redman just asked me to invite him to the next committee meeting on central billing which I plan to attend. We can attend it together. That committee is pretty much on schedule, you remember this Board gave them a phase-in time. They do have a consultant's report and we plan to bring this to the Hospitals Board's next meeting for a report. Then, I think, Mr. Redman will bring it to your Board next time. We'll give you a good progress report.

Mr. Redman:

It might not be amiss, Dr. Tzagournis, to send Mr. Teaford and the other members of the Board of Trustees the consultant's report so they will have the benefit of that before the next meeting.

Dr. Tzagournis:

I'd be happy to.

President Jennings:

It could represent a major breakthrough in hospital activity as it this is not unique to Ohio State. If we get this one solved, we've worked a minor miracle. I would also suggest perhaps we ought to include members of the Trustees in the University's PPO where there is no paperwork.

Mr. Teaford:

I'd love that.

Mr. Kessler:

Why is it so complicated?

October 1 and 2, 1987 meeting, Board of Trustees

Mrs. Bowser:

How much time do you have?

President Jennings:

It's federal rules, state rules, Blue Cross rules --

Mr. Redman:

However, it needs a solution. I am satisfied from an accounting stand point that it can be solved, but I want to make this statement for the public record that we cannot be unfair with the doctors. If we don't have doctors on our staff, we wouldn't have any hospital. And they are there for a lot of reasons, one of which is to make money. We can't make the billing system so they can't get paid. That is one of the concerns that some of the doctors have mentioned to me directly. And I have solicited their comment, asking, "What are you afraid of?" We've got the consumer problem as Mr. Teaford has outlined, and I think we need to do something about it. But by the same token we need to assure the physicians on the staff that we are not going to make it so that they can't exist and get their money within a reasonable time -- that's all.

Mr. Teaford:

My sense is that the current billing system contributes to their getting their money slower. Because if I had had all of those on one bill, they would have simply been paid, but I had to check each one because I didn't know what they were. And there is no question that I paid those doctors slower than I would have paid had we had a uniformed billing system.

Mr. Redman:

When you get through with those, Mr. Teaford, I'll be getting a few and I'll send them down to your secretary.

Mr. Teaford:

Oh, please don't, she will kill me!

Mrs. Bowser:

I just want to reemphasize the point that Dr. Tzagournis and Mr. Covert have been working on this problem. It is not that it has been shelved, it has not. And I think Mr. Havens had a comment or two at the last meeting that he had a suggestion which Dr. Tzagournis is going to take under advisement. So, it is not something that has been put on the shelf, they are on the same time-frame that we gave these gentlemen.

Mr. Redman:

Well, we don't want to be slow like the seven-year itch. We don't want Mr. Teaford's wife to pass away before we can get his bill straightened out.

October 1 and 2, 1987 meeting, Board of Trustees

Mr. Teaford:

Even worse, she doesn't want me to pass away before the bills are paid.

Mr. Redman:

Having had outside consultants now, and pragmatic review of the problem, I think we would all benefit by having that. Is there anything else? We'll have the Foundation Board report -- do you have anything to report?

Mr. Teaford:

Yes, I do, Mr. Chairman. First of all, Mr. Chairman, I have not said this publicly, and I want to make sure I do, that I think this is an important innovation that you have added this year to have these reports, and I am particularly pleased that you have done it.

You have already heard the principle things that the Foundation Board has done in Vice President Tobin's report at this morning's committee meeting. As you know, we are at some 64% of the goal already. I have a list of the members of the Foundation Board and I think it would be useful to pass it around so that we are aware of the persons who are devoting so much time to make this a reality.

As you know, the principle criteria for being on this Board is the ability to raise or, in fact, donate \$1 million to the University; other than those who are on there because they are members of the Board of Trustees, lest anyone think I am capable of such generosity. But as important as the gifts -- and as you know, our Chairman of that Board, Les Wexner, has announced an increase in his gift from \$10 million to \$25 million -- there is a great deal of time and energy being spent by the members of the Board that are a great help to this institution. A few examples are -- and I am happy to point out that a number of those examples sit on this Board -- Len Immke has been involved in the Campaign on behalf of the Cancer Hospital and Research Institute and has served as a host for a number of local and regional development events; Jack Kessler, Bernie Gerlach, Dan Galbreath, and Mel Schottenstein have all been active in the Columbus Regional Campaign; and Richard Leet is active in the Chicago Regional Campaign. Also, David Sharrock, who is on the Board, has been involved in the Cincinnati Campaign. Jack, Bernie, and Mel, along with Alex Schoenbaum, have also worked to build the athletic portion of the Campaign. Fred Ruffner, who is on the Board, but is also the Chair of the National Campaign Steering Committee, has hosted numerous Development events. He maintains an ongoing open line of communication with the University and is a strong advocate on its behalf. Richard Denman serves as co-chair of the Medical Center portion of the Campaign and Ralph Kent is the Chair of the College of Business Campaign activities. I think it is important to note that not only are these persons sharing with us their resources, but indeed, perhaps even more valuable, their time and energy. And I think

October 1 and 2, 1987 meeting, Board of Trustees

Mr. Teaforde: (contd)

this Board should know that. I, personally, am very appreciative of the kinds of efforts that we are seeing. Thank you.

Mr. Redman:

Thank you, Mr. Teaforde, for your report. This schedule of the terms of office doesn't indicate that Wexner is the Chairman, but you say that he is.

Mr. Teaforde:

He is indeed.

Mr. Redman:

I think that is fine. He certainly has been generous to the University and we all appreciate it.

President Jennings:

I think, mentioning people -- and I will second that -- there is an enormous amount of time that is spent by all of those people that you mentioned. It is a major reason for the success of this Campaign, to date. I am sure you would also want to mention Jim Chaplan on the Cleveland Campaign, who I might add is recovering well from major surgery and will be back bugging the Cleveland people to get involved with Ohio State, very shortly.

Mr. Kessler:

I might mention, tagging on to Joel's comment, that the Columbus part of the Campaign has contributed, in the two years since the Campaign started, \$110 million in 2 1/2 years, which is 80% of the Columbus goal. Columbus benefits a lot from what goes on at Ohio State, but it is amazing that this community has been that generous to this University. I think it is just incredible.

Mr. Redman:

Are there any other comments? I would like to have the report from Mr. Barone on the Research Foundation.

Mr. Barone:

Mr. Chairman, on The Ohio State University Research Foundation I wish to state, at this time, that I am also very happy that you have created these reports, because what I knew about the Foundation before serving on the Board was absolutely zero. It was all together different from what I surmised it was.

We had a meeting on June 19, and the officers were elected at that time: President - Dr. Hollander; Vice President - Roy Koenigskecht; Secretary - Herb Toennisson; and Assistant Secretary - Mr. DeStazio. What with the election of officers and getting acquainted at the June meeting, we had an additional

October 1 and 2, 1987 meeting, Board of Trustees

Mr. Barone: (contd)

meeting on September 18, where we got into the functions of the University Research Foundation. Everything that the Foundation is awarded is approved by the Board of Trustees, and consequently, that is why I feel that this Board should have a more general knowledge of what the function of the Foundation is. I certainly did not have it.

The awards given to this University do not come easily. I am happy to report, for example, in 1978 the University received \$31 million in awards. In June 1987, we have \$82 million. Of course, with the 1987-88 awards given and the money coming in, it will easily reach \$100 million. So there is \$100 million worth of work being done in this University, which amazed me and I don't know if the rest of the Trustees knew about it or even that these functions are going on. One hundred million dollars in awards and \$100 million being granted to this University, I think it is tremendous. I think Dr. Hollander is doing a tremendous job as the President of the Foundation.

For example, for the period 7/1/86 - 5/31/87 we have received almost \$93 million in awards and the expense account on that is 3%. I think that is fantastic -- a \$21,468 expense account, with an income of \$93 million. Myles attended this meeting and of course, Myles knows this much better than I do. I've been leaning on him to find out the functions and how the Board operates. I'd like to read, for example, the report of Federal awards and then the percentages: National Aeronautical and Space Administration has given 36 awards; National Science Foundation has given 127 awards; Department of Defense has awarded us 61 grants; Department of Energy - 19 awards; Department of Education - 35 awards; Department of Health and Human Services, and I think Dr. Tzagournis is very active in that, they have given us 201 awards; and numerous other agencies have awarded us 57 grants.

Mr. Redman:

Who rides herd on these? Once we get the money, who gets the money --

Mr. Barone:

Well, different departments apply for these awards, and that is why I say that I was amazed that we were able to do this with very little lobbying. I think if more of the University knew about these awards and the amount of money involved, I feel -- and I told Dr. Hollander and Myles -- we are not assured we are going to get these awards when we present them. Most of them are Federal and if we could get a little lobbying in there, I think it would be very helpful.

Mr. Redman:

Who instigates the requests?

October 1 and 2, 1987 meeting, Board of Trustees

Mr. Scott:

Myles?

Dr. Brand:

Let me speak to this for just a moment, Mr. Chairman. These are all peer group awards from the Federal Government. Resident scientists and researchers on Campus submit awards to peer groups and they are judged by panels and committees. They are not political process awards, but rather on the merits of the proposals.

Mr. Redman:

In other words, the Federal Government and those folks decide that they are going to give an award for something or other and then the universities all over the country bid on them.

Dr. Brand:

Then they are chosen on the basis of quality by a panel of experts.

Mr. Redman:

If we get the bid, if we are the successful bidder like a contractor, then we get the money.

Mrs. Bowser:

It's on quality, not on --

President Jennings:

It's not on dollars.

Dr. Brand:

It's is not on dollars. The dollar amount is set by the Federal Government and then they choose the university research team on the basis of the quality of the faculty involved.

Mr. Redman:

Having been granted that, we get the money, right?

Dr. Brand:

Yes, Sir.

Mr. Scott:

To do the work. As an example, today we received a major grant for AIDS research -- that is the kind of thing that Myles is describing. But the ideas are generated by our research faculty, research scientists, and then those are submitted to the various federal agencies to be peer reviewed. That is the difference between this and pork barreling.

October 1 and 2, 1987 meeting, Board of Trustees

Dr. Brand:

I might note, Mr. Chairman, that having passed the \$100 million mark per year is a significant achievement for this University. I might note that, to follow up on Mr. Barone, the National Institute of Health grants, which are very competitive grants and a significant mark of achievement in the quality of our programs, is significantly up due to research at the Medical School.

Mr. Redman:

Very good.

President Jennings:

I think, as we noted, the very encouraging aspect of all of this is that these have been, over the last several of years, growing at an annual rate compounded at 12% a year, when much of the research activity has been flat. You mentioned the College of Medicine -- they have been growing at roughly 22% a year over the last several years, reflecting the enormous work and success of bringing in new, young faculty who are very competitive in these areas. This is a major measure of the quality of an institution. Around the country we ranked 23rd in the nation, and we expect that rank to improve substantially over time.

Mr. Teaford:

Mr. President, I think we shouldn't lose sight of the fact that the biggest single reason that we have so many successful grants is that our faculty is active in seeking them. Because without the proposals from the faculty, that simply could not happen. I think later today we are going to hear from one of the stars in that regard, Dr. Twarog.

Mr. Barone:

We have increased our awards of the last three years by 49%. And that is because of the faculty and because of the excellent work the faculty has done in the past. So you can see from \$31 million to \$100 million is a tremendous increase, and we should be very proud of what the group is doing on that.

I'd also like to report to the Board of Trustees -- by coincidence on the Super Collider, one of the chief, or I should say the main person who is working on the Super Collider for the Government, is a brain-child from Toledo, Ohio, called Mike Weatherall. I play golf with his father quite a bit. So I've heard the basic report that he has given President Reagan. He feels that after the research he has made -- and his report will go to President Reagan -- that he would like to point it towards Ohio. However, President Reagan at the present time hasn't had as much publicity as a good actor should, and he feels that when the report is in, that Illinois, which has probably the best facility -- physical facility, the University, the airport and everything else, probably it should go that way. But it is his opinion, when it is all said and done, that President Reagan

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Mr. Barone: (contd)

has the choice of where to put it and it will probably, as his last curtain call, will take it right into California. However, what happened yesterday in California may completely force him to change his ideas of placing it there with the earthquake. But there is a strong feeling in Congress, he tells me, that the Super Collider is a \$6 billion expense that should be payment put on our national debt. And in all probability, if something is not done with our national debt area, the Super Collider will be put aside for the future and the money expended on the national debt. Now that is very, very unofficial, I'm just giving you what members of that committee are thinking.

Mr. President, I can see your facial expression, you may expound on that.

President Jennings:

Let me talk about the process very briefly. I think it is very important to recognize -- and we were talking about these research grants -- that the first action that will be taken will not have any political activity at all associated with it. Peers will select anywhere from 2-3, to 6-7 undetermined sites that are all acceptable, scientifically. And obviously Fermi Lab at the University of Illinois will be competitive with that because they already have a lab there. But they, like other proposals, have some major disadvantages associated with Fermi Lab that, I think, make our proposal competitive with theirs. Two major issues associated with Fermi Lab is their bedrock is much deeper than ours is and the cost would be higher. Then secondly, if the current facility at Fermi Lab is used as part of this new Super Collider, then the Fermi research would have to be shutdown during the construction phase, which would be up to three years, which would be a major setback for science. Because even with this new facility, the Fermi Lab will still be a major scientific instrument. And then third, if the Fermi Lab is used, the scientific community is worried that we will be using equipment that was developed in the '50's to put in with the more modern Super Collider. So, I think, that the assumption that the University of Illinois has a competitive edge is not totally appropriate. Obviously, they already have a facility there.

The other thing that I think we should recognize, too, in terms of President Reagan, is that in order for President Reagan to make a decision on this, this process is going to have to go much more rapidly than the scientific process would typically take. That January 20, 1989 date is upon us, and I think that the scientific community feels that it is most likely that the next President of the United States will make this decision, because of the time required to develop this project.

Mr. Redman:

We can have Bush do that. Are you through?

President Jennings:

Everett Dierksen did not have anything to do with Fermi Lab.

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Mr. Redman:

I wanted to ask one question of general information. Is it true that all requests for research grants must go through the Board, the Research Board? Is that a correct statement, or not?

Mr. Barone:

Yes. I thought I said that. Everything that the Board of Directors does, or submits, or recommends must be submitted eventually to the Board of Trustees for approval.

Mr. Redman:

I didn't mean that, John -- I meant that let's assume that a member of the faculty wants to make an application for a grant, does he have to go through the Research Board?

Mr. Barone:

Yes.

Mrs. Bowser:

It would be nice to know who is on the Research Board like we know who is on the Foundation Board, maybe next time.

Mr. Scott:

We'll provide you with that.

Mr. Redman:

Any other questions? Thank you, Mr. Barone. We would like to have the report on the Development Fund from Mr. Kessler.

Mr. Kessler:

There have been no meetings of the Development Board since a lot of the activity of the fundraising has been picked up by the Foundation Board. The Development Board is still active and still in existence, but most of the major fundraising has been assumed by the Foundation.

Mr. Tobin:

Let me add a comment to that. Actually, the Development Fund Board will have its next meeting next week. We will send you a copy of the minutes of that meeting. The Foundation, as Jack indicates, is concentrating its activities on major gifts and so on and so forth as part of the Campaign. The Development Fund Board is concentrating on what we call "base building," working on the total number of donors contributing to the institution. They will be looking at a number of major recommendations from our staff next week and my thought was to send you a copy of the minutes of that session which will also include some new people who have been added to that Board.

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Mr. Redman:

Thank you, Mr. Tobin, Mr. Kessler.

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Mr. Redman called upon Dr. Brand to introduce Professor Twarog, Father Matejic, and Predrag Matejic, to give a presentation on the Hilandar Library.

Dr. Brand:

Thank you, Mr. Chairman. I would like to take this opportunity to introduce you to Professor Leon Twarog, who is a Professor Emeritus. He came to Ohio State in 1960, as a full Professor to help fill the University's Slavic studies program. And, indeed, he was Chairperson of the Department of Slavic and East European Languages and Literatures from its beginning in 1962 until 1972, and then again served in that capacity from 1978 until 1984.

Amongst his achievements is having founded and directed the Center for Slavic and East European Studies from its creation in 1965, until his retirement. It's significant that this Center is a Title VI funded federal Center; one, I believe, of only 11 in the country. And it is an achievement to have done this over this long period of time. I could spend a very long time listing Professor Twarog's accomplishments, though let me name just one, and that is that he was instrumental in bringing about the individualized instruction program for foreign languages in which instruction is delivered through the telephone and includes written tests. These are for languages such as Czech, Polish and Russian, and they are taught in this way across the entire country.

Professor Twarog will introduce his colleagues and they will talk about the Hilandar Research Project and the Hilandar Research Library which relate to the Slavic language program. As you recall earlier, we discussed the new Master's program in this area. Professor Twarog --

Professor Twarog:

Thanks very much for a very gracious introduction. Members of the Board, today I just want to say that we are all very grateful that we have the opportunity to speak about one of the more exciting research projects that we have here on Campus, and this is the Hilandar Research Project. It is generally referred to by that name, but now it has been divided into two segments -- along functional lines, one is the Hilandar Research Library, which is directly under the jurisdiction of the Library, and the second is the Resource Center for Medieval Slavic Studies, which is housed in the College of Humanities.

The Resource Center for Medieval Slavic Studies is under the jurisdiction and direction of Professor Mateja Matejic, who is right here and he will be speaking next. The Hilandar Research Library is directed by a curator, Dr. Predrag Matejic, who is now an Assistant Professor in the Library and he will be managing the

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Professor Twarog: (contd)

projector here in just a moment and speaking later on. So both of them will speak about their specific charges.

One thing I do want to emphasize is that this is a project that any university in this country, including the leading ivy league universities -- my own alma mater, Harvard -- would be happy to have at any time. It already comprises one of those peaks of excellence that President Jennings has been talking about constantly and many scholars abroad know about Ohio State only through this particular project.

Now, all of this has beginnings back in 1969, when Professor Matejic came to me and said that a childhood friend of his, who was then the librarian at Hilandar Monastery on Mt. Athos, Greece, had written and said that he was very much concerned about the safety of the library. All kinds of fires had been breaking out in monasteries. Why libraries -- nobody knows, but they did happen and so I suggested that we might see what we could do about microfilming. I happen to know that monastery, in particular, because of my previous work in Slavic studies and studying Serbian. I knew that library was equivalent to a university library, from a point of view of medieval times. And so we had a positive answer from the monks, and in the middle of winter -- I didn't have any pity for Father Matejic, I must say, two weeks after he left the hospital for a gallbladder operation in the middle of winter we sent him to Mt. Athos on an exploratory trip. He went there, came back with some samples and with an agreement with the monks. In the summer of 1970, he and Professor Walt Craig, from our Department of Photography and Cinema, went to Mt. Athos and they photographed 119 manuscripts. The following summer, Professor Matejic went with his son, Predrag, and they photographed the remaining 710 manuscripts. This photography was done working 12-14 hours a day, photographing in sunlight, with a standard 35mm camera and a 36-exposure cassette. This is the only way this thing could be done.

At first, all of these films were housed in a janitor's broomcloset in the Slavic Department and all we had was a portable microfilm reader. By 1981, we got a toehold in the Library and we were given a small room on the third floor, and this was the first Hilandar Room. We soon outgrew that space and by 1984, the Library, itself, suggested that we move to more spacious quarters. These quarters needed renovations, needed furniture, and I must say that the Office of Academic Affairs came through, here, and the Provost gave us something like \$50,000 to furnish the room and to make sure that it was properly air conditioned and anything else that was needed.

Over the years, Professor Matejic and I have worked as a team. It was my job to get space, to find operating funds; it was his job to take care of acquisitions and the scholarly aspects of this particular program. And I know that I am prejudiced, but at the same time I think I am pretty close to the truth, if not completely true, when I say that this particular collection in the Hilandar Research Library is the most valuable collection in

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Professor Twarog: (contd)

our Library of over 4 million volumes. The Professors Matejic will have more to say about that in just a moment. What we want to do now is present to you the last five minutes of an eleven minute slide show for which the commentary is now translated into 12 languages -- if you want to hear them all, but you will have to go to the Hilandar Research Library to hear that. I hope that you will find five minutes interesting enough so that you will want to see what you missed in the first six minutes. We would be honored to have all of you visit the Hilandar Research Library and get a much fuller explanation. And now we will turn to the slides.

Slide Presentation:

Of the twenty existing monasteries, three are historically related to the world of Slavs and are populated primarily with monks of Slavic descent. St. Panteleimon is Russian; Zograf is Bulgarian; and Hilandar is a Serbian monastery. Hilandar was built in 1198 by St. Simeon Stefan Nemanja, a former ruler of Serbia, and his two sons, St. Sava and Stefan, the First-Crowned. Although it is on Greek territory, Hilandar has played the decisive role in shaping the religious and national awareness of Serbs.

The monasteries together and each of them separately, have represented and still represent important monastic, religious, and cultural centers. Precious manuscripts were kept and written in various languages, primarily Greek. Notwithstanding the fact that a large number of manuscripts have been destroyed or taken away, it is believed that there are still some 17,000 codices there, not counting fragments, edicts, letters, and various other documents. Various objects of art needed for liturgical and religious practice were also produced there. Each monastery still owns numerous carved crosses, icons, frescoes, embroidered curtains, etc.

Manuscripts, as well as icons, curtains, and other objects of religious art used to be sent as presents from various countries. Such was the case with this curtain which was sent to Hilandar by the wife of Ivan the Terrible. She, herself, embroidered that curtain. Also treasured in Hilandar is the famous Diptych of Jefimija (14th-15th Century A.D.). On the back side of that two-panel icon is engraved the prayer of Jefimija, mentioning the death of her only son Ugljesha. The text of this poem is considered to be the first poem in Serbian literature written by a female author.

In Hilandar, as well as in other monasteries on the Holy Mount, a large number of rare and precious printed books are preserved in libraries. In view of the fact that the library of the Hilandar Monastery contains a large number of Slavic manuscripts which represent a heritage of cultural interest for the entire world, the Department of Slavic Languages and Literatures at The Ohio State University considered it desirable and necessary to obtain permission to microfilm all of these manuscripts treasured in Hilandar. The Department hoped thereby to make this material

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Slide Presentation: (contd)

accessible to scholars, students, and all individuals interested in it. At the same time, in case of some disaster on the Holy Mount, this invaluable material would be preserved on film, even if the originals were destroyed. With the permission of the Greek civil authorities, as well as the monastic government and the Brotherhood of the Hilandar Monastery, in the period 1970-1975, all Slavic codices in Hilandar, as well as numerous edicts, icons, frescoes, carved crosses, and many other objects of religious art at Hilandar were photographed. This task was accomplished by Professor Mateja Matejic, Professor Walt Craig, and Dr. Predrag Matejic.

Microfilms of Slavic manuscripts from the Hilandar Monastery are available in the Hilandar Room in the Main Library of The Ohio State University. This collection also contains microfilms of some 117 Greek codices from the Hilandar Monastery as well as microfilms of a number of Slavic codices from other monasteries and European libraries which have granted their permission to photograph the material they have. All these microfilms are available to anyone interested in looking at them or studying them. The Serb National Federation in the U.S.A. and individuals of Serbian descent in the U.S.A. and Canada contributed the financial means needed to purchase furniture and microfilm readers for the Hilandar room. Photography of the manuscripts was financed by The Ohio State University, the National Endowment for the Humanities, and the American Council of Learned Societies.

Even today, monks of the Holy Mount continue the Orthodox monastic traditions instituted in the 4th century in Egypt and in the 6th century on the Holy Mount. Here in Columbus, in the Hilandar Room, fruits of that culture which has been in existence for over a millennium are stored on our microfilms. Thus, the Hilandar Room represents a bridge between the Holy Mount and the United States of America, a bridge between the past and the present. In essence, this is the importance of the Hilandar Room and the Hilandar Research Project.

Father Matejic:

With your permission, I would just like to outline the significance of the Hilandar Research Project, which is presently known as the Resource Center for Medieval Slavic Studies and, also, the Hilandar Research Library. I divided it into local and national under number 1 and international significance under number 2. We handed out this paper so you may later check some of the things.

Ours is the largest, in fact the only Resource Center for Medieval Slavic Studies and the largest repository of microforms of Medieval Slavic manuscripts in the Western Hemisphere. Microform holdings in the Hilandar Research Library represent invaluable and in some cases unique research material related to the Slavic culture in the Middle Ages. A large portion of this material is normally inaccessible to female scholars and/or students and their only opportunity to study it is in our Hilandar Research Library. Our research material is used for

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Father Matejic: (contd)

research by scholars and students locally, nationally, and internationally. Several Ph.D. dissertations, M.A. theses, monographs, and studies have been written and published on the basis of our material. Some students have enrolled at The Ohio State University in order to have access to this research material. Outside funding has been received from the National Endowment for the Humanities, the American Council of Learned Societies, the U.S. Information Agency, the Serb National Federation, and individuals of Serbian origin in the United States and Canada. Two International Hilandar Conferences have taken place, one at Ohio State, the other in Rila Monastery, Bulgaria. The third, which had been scheduled for Nijmegen, The Netherlands, has now been rescheduled for Belgrade, Yugoslavia, for the end of 1988. Interest of the general public in our Resource Center and Hilandar Research Library has been evidenced by hundreds of domestic and foreign visitors coming to see the Center and the Library.

Individual scholars and academic institutions often send us requests for information and assistance in their research. Just to mention a few, we received a photocopy of a Vatican Slavic Manuscript #8, written in a secret alphabet which they sent to us of all the places to decipher. And we did send them an alphabet, with instructions on how to read the rest of the manuscript. Another thing is that Professor Cornelia Gutz in Romania, worked about twenty years on a manuscript, not knowing that the missing first leaf was at another library and available through us. Bulgarians are very grateful to us because we discovered the exact date of the death of Paisy, one of their great heroes, comparable to George Washington. Just imagine someone in Bulgaria discovering the exact date of George Washington's birth or death, 200 years after it happened. A number of European Academies of Science and Arts, universities, national libraries, and other academic institutions have been sending us books and periodicals free of charge, which is a savings of thousands of dollars.

Both the Resource Center and Hilandar Research Library are well known and highly respected in the academic world of all European countries, both in Western and Eastern Europe. I regret to say that they value the Hilandar Research Project more than it is valued on our own campus.

We have frequent contacts and continuous academic cooperation with Academies of Sciences and Arts, universities, monastic and national libraries involving conferences, exchange of information, exchange of specialists, exchange or acquisition of microforms from the following countries: Canada, Greece, Cyprus, Italy, Sweden, France, Belgium, The Netherlands, Poland, Czechoslovakia, Bulgaria, Hungary, Romania, the Soviet Union, and Yugoslavia. Dr. Predrag Matejic and I have just returned this Monday from Yugoslavia, where we concluded a number of important discussions and agreements which will lead to extensive cooperation and provide exciting opportunities for the further development of our Center and the Hilandar Research Library. Thank you.

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Professor Predrag Matejic:

The Hilandar Research Library is one of six special collection libraries of The Ohio State University Libraries. To honor its initiative and concern, Hilandar Monastery's name -- that was the first place we went -- is preserved in the name of the Hilandar Research Library. It is the goal of this library to gather in microform or print as many Slavic manuscripts and related material as possible in one location here at The Ohio State University, and to make these materials accessible to all scholars. Through acquisition, exchange, or direct microfilming, we are constantly striving to increase our holdings. Through cataloging and description, information regarding this largely unresearched material becomes available. Through our own research, and the research support we give others, scholarly contributions are made worldwide.

We now have microforms of approximately 2,200 manuscripts, primarily Slavic. It is the second largest such collection in the world, and will likely be the largest within five years.

Composed of materials from 17 different countries and 38 private, monastic and public libraries, the Hilandar Research Library offers scholars a unique opportunity to investigate the thousand-year written cultural heritage of the Eastern Orthodox Slavs. The Hilandar Research Library is equipped with microfilm and microfiche readers, with the best available reader-printer, and with several computers. This equipment and the possibilities for comparative research have led scholars throughout the world to seek a means by which to come to Ohio State. As one scholar recently stated, "she was able to do in three months at Ohio State what she couldn't have done in three years anywhere else."

In the United States librarians and scholars have privately admitted that the Hilandar Research Library and Ohio State now hold the foremost place in medieval Slavic resources in the United States. Both of the major Slavic professional organizations in this country have now recommended to their members that all such privately held material in microform be sent to us to be copied and made available. Recently, The Ohio State University Libraries were the recipient of a \$158,000 Title II-c Grant under the Higher Education Act to preserve the collection and to catalog it on OCLC and LCS. Thus, information regarding this material and its availability at Ohio State will now be available to over 10,000 libraries. Furthermore, we will have an opportunity to establish the standards by which such material is cataloged in this country.

Our future plans include not only the acquisition of additional materials on microform and the further development of what is already considered an excellent reference collection, but the application of new technology, especially computers, to the organization and study of medieval Slavic materials. These databases, both bibliographic and descriptive, will provide researchers worldwide with the best possible and easiest access to this material which is traditionally only available to them at great cost of time and expense.

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Professor Matejic: (contd)

Many people and scholars in the world have only heard of The Ohio State University because the Hilandar Research Library exists and offers hope to them that we can gather on microform the scattered past of the Eastern Orthodox Slavs, 90% of whose manuscripts have been lost forever. They support our dream and goal to gather together as much of that which is remaining as is possible, for they know that once it is in our hands, it is also accessible to them.

Thank you for this opportunity to share with you information on one of the thirty-nine libraries and reading rooms at Ohio State. Thank you.

Mr. Redman:

Dr. Brand --

Dr. Brand:

As you can see, the University is involved in medical research, hi-tech research, and also preserving our past. It is important that the institution have a diversity of research efforts and we are part of the international community in this regard. We are proud to have the Hilandar Library as part of The Ohio State University.

Mr. Redman:

Thank you.

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NEW DEGREE PROGRAM

Resolution No. 88-29

Synopsis: The establishment of a Master of Arts degree program in Slavic and East European Studies is proposed.

WHEREAS the Council on Research and Graduate Studies and the Council on Academic Affairs have approved the establishment of a Master of Arts degree program in Slavic and East European Studies; and

WHEREAS currently no comparable degree program in Slavic and East European Studies exists in Ohio, the proposed Master of Arts program would fulfill a state-wide need; and

WHEREAS sufficient resources and student demand exist to support the proposed Master of Arts degree program in Slavic and East European Studies; and

WHEREAS the University Senate has approved this action at its September 26, 1987 meeting;

NOW THEREFORE

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NEW DEGREE PROGRAM (contd)

BE IT RESOLVED, That the establishment of the Master of Arts degree program in Slavic and East European Studies is hereby approved.

Upon motion of Mr. Teaford, seconded by Mrs. Bowser, the Board of Trustees adopted the foregoing resolution by unanimous voice vote.

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REORGANIZATION OF THE COLLEGE OF EDUCATION

Resolution No. 88-30

Synopsis: A proposal to reorganize the College of Education into five units is proposed.

WHEREAS the Faculty Senate of the College of Education approved the reorganization of the College from four units (Department of Human Services Education; Department of Educational Policy and Leadership; Department of Educational Theory and Practice; and School of Health, Physical Education, and Recreation) to five units (Department of Educational Services and Research; Department of Educational Policy and Leadership; Department of Educational Theory and Practice; the Department of Educational Studies: Humanities, Science, Technological and Vocational; and the School of Health, Physical Education, and Recreation). The School of Health, Physical Education, and Recreation is not effected; and

WHEREAS the current organization of the College of Education is composed of departments of unequal size and diversity of programs; and

WHEREAS the proposed reorganization will group together individuals with similar interests and programs of similar academic functions thereby making it easier for the College to manage programmatic needs; and

WHEREAS the proposed reorganization has been approved by the University Senate at its September 26, 1987 meeting:

NOW THEREFORE

BE IT RESOLVED, That the proposal to reorganize the College of Education is hereby approved.

Upon motion of Mr. Barone, seconded by Mr. Kessler, the Board of Trustees adopted the foregoing resolution by unanimous voice vote.

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AMENDMENTS TO THE RULES OF THE UNIVERSITY FACULTY

Resolution No. 88-31

Synopsis: Amendments to rules 3335-3-35 and 3335-5-483 is being proposed.

WHEREAS the University Senate pursuant to rule 3335-1-09 of the Administrative Code is authorized to recommend through the President to

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AMENDMENTS TO THE RULES OF THE UNIVERSITY FACULTY (contd)

the Board of Trustees the adoption of amendments to the Rules of the University Faculty as approved by the University Senate; and

WHEREAS the proposed changes in the Rules of the University Faculty were approved by the University Senate on September 26, 1987, as follows:

AMENDED RULES

3335-3-35 Chairpersons of departments, directors of schools.

(A) unchanged.

(B) The duties of the chairperson of a department or the director of a school shall be as follows:

- (1) To have general administrative responsibility for its program, subject to the approval of the dean of the college.
- (2) To develop in consultation with the faculty a pattern of administration. This pattern of administration shall be made available to all present and prospective members of the faculty of the department or school, and a copy shall be deposited in the office of the dean of the college and in the office of the vice president for academic affairs and provost.

For purposes of defining minimum content, the following shall be included in the pattern of administration:

- (a) A statement requiring the chair to provide a schedule of all regular faculty meetings (see rule 3335-5-18 of the Administrative Code) to all faculty members before the start of each quarter, semester, or session.
- (b) A statement requiring the chair to maintain minutes of all faculty meetings and to maintain records of all other actions covered by the pattern of administration.
- (c) A statement that the chair will consult with the faculty as a whole on all policy matters, and that such consideration will, whenever practicable, be undertaken at a meeting of the faculty as a whole.
- (d) A statement recognizing in principle the presumption favoring majority faculty rule on all matters covered by the pattern of administration. This statement shall further provide that whenever majority faculty rule is not followed, the department or faculty chairperson, or school director, or dean and director of a regional campus, whichever is the case, shall explain the reasons for the departure to enhance communication and to facilitate understanding within the department. Where possible, this statement of reasons shall be provided before the departure occurs. This explanation shall outline the decision of the majority of the faculty, the decision of the department or faculty chairperson, or school director, or dean and director of the regional campus, whichever is

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AMENDMENTS TO THE RULES OF THE UNIVERSITY FACULTY (contd)

the case, and the reasons the decisions differ. The explanation shall be communicated to the faculty in writing, where possible, or at a faculty meeting, with an opportunity provided for faculty to comment.

- (e) A statement affirming that the faculty shall be consulted in the initiation and in the review and selection of new faculty members for appointment.

Balance unchanged.

3335-5-483 Committee on university bookstores.

(A) Membership.

The committee on university bookstores shall consist of eleven members.

- (1) Five regular faculty one of whom is a member of the university libraries, elected by the faculty council. The term of service is three years.
- (2) Four students. The term of service is one year.
 - (a) One graduate student.
 - (b) One professional student.
 - (c) Two undergraduate students.
- (3) Two administration members, non-voting.
 - (a) Vice president for business and administration, or designee.
 - (b) Director, the Ohio state university bookstores.

(B) Duties and responsibilities.

- (1) Review short- and long-term plans and objectives recommended by the management of the Ohio state university bookstores and, in cooperation with that management develop, revise, and recommend basic policies, programs, and objectives. These would include, but not be limited to:
 - (a) Reviewing proposals to open or close branches.
 - (b) Monitoring and reporting to the senate periodically on the financial status of the bookstores.
 - (c) Recommending actions that promote the scholarly nature of the bookstores.
 - (d) Developing policies that enhance the timely availability of both new and used textbooks.

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AMENDMENTS TO THE RULES OF THE UNIVERSITY FACULTY (contd)

- (e) Recommending changes to maintain adequate educational materials, services, and organization.
- (2) Make recommendations on these matters to the director of the Ohio state university bookstores, and to the university senate as appropriate. The vice president for business and administration, the vice president for finance, and the office of the university senate shall be notified of these recommendations.

Upon motion of Mr. Barone, seconded by Mrs. Bowser, the Board of Trustees adopted the foregoing resolution by unanimous voice vote.

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NAMING OF BUILDING

Resolution No. 88-32

Synopsis: The naming of the building under construction on the Columbus campus at 10th and Neil Avenues, now described as The Ohio State University Cancer Hospital and Research Institute, is proposed.

WHEREAS the Board of Trustees, pursuant to rule 3335-1-08 (G) of the Administrative Code, has the authority to name all buildings and structures at The Ohio State University; and

WHEREAS the building being constructed on the Columbus campus at 10th and Neil Avenues is currently described as The Ohio State University Cancer Hospital and Research Institute; and

WHEREAS the Cancer Hospital and Research Institute symbolizes the lifelong commitment of Dr. Arthur G. James to medicine and the improvement of the quality of life for all people; and

WHEREAS Arthur G. James envisioned and planned for the building of a cancer hospital at The Ohio State University since the mid-1950s; and

WHEREAS he has worked tirelessly in recruiting world-class doctors and researchers and in raising funds for the research and the laboratories; and

WHEREAS the President recommended, with the concurrence of the President's staff, that the aforementioned building at 10th and Neil Avenues be named in honor of Arthur G. James:

NOW THEREFORE

BE IT RESOLVED, That hereafter the building at 10th and Neil Avenues shall bear the name, "Arthur G. James Hall" of The Ohio State University Cancer Hospital and Research Institute.

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NAMING OF BUILDING (contd)

Upon motion of Mrs. Bowser, seconded by Mr. Barone, the Board of Trustees adopted the foregoing resolution by unanimous voice vote.

Mr. Redman:

I might add, in connection with that, Len Immke who is not here, asked that his vote be recorded in favor of this, Mr. Secretary.

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HONORARY DEGREE

Resolution No. 88-33

Synopsis: Approval is requested for awarding an honorary degree.

WHEREAS pursuant to paragraph (C) of rule 3335-3-03 of the Administrative Code, the President, after consultation with the Steering Committee of the University Senate, recommended to the Board of Trustees awarding of an honorary degree as listed below:

Josephine S. Failer

Doctor of Humanities

NOW THEREFORE

BE IT RESOLVED, That the above honorary degree be awarded in accordance with the recommendation at a time convenient to the University and the recipient.

Upon motion of Mrs. Bowser, seconded by Mr. Teaford, the Board of Trustees adopted the foregoing resolution by unanimous voice vote.

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PERSONNEL ACTIONS

Resolution No. 88-34

RESOLVED, That the personnel actions as recorded in the Personnel Budget Records of the University since the September 4, 1987 meeting of the Board, including the following Leaves of Absence Without Salary, Leaves of Absence Without Salary--Continuation, Professional Improvement Leave, and Emeritus Titles as detailed in the University Budget be approved, and the Medical Staff Appointments/Reappointments approved August 27, 1987, by the Hospitals Board be ratified.

Leaves of Absence Without Salary

OSCAR FISCH, Professor, Department of City and Regional Planning, effective Autumn Quarter 1987, for personal reasons.

KAMRAN MAJIDZADEH, Professor, Department of Civil Engineering, effective Autumn Quarter 1987, for personal reasons.

October 1 and 2, 1987 meeting, Board of Trustees

PERSONNEL ACTIONS (contd)

Leaves of Absence Without Salary (contd)

PAUL G. NEVAI, Professor, Department of Mathematics, effective Autumn Quarter 1987, Winter Quarter and Spring Quarter 1988, to accept a Professorship at the University of South Carolina.

ALLAN K. WILDMAN, Professor, Department of History, effective Autumn Quarter 1987 and Spring Quarter 1988, to accept an NEH Fellowship.

SHELDON KAMIENNY, Associate Professor, Department of Mathematics, effective Autumn Quarter 1987, Winter Quarter and Spring Quarter 1988, to do research at the University of Arizona.

CATHERINE M. CONAGHAN, Assistant Professor, Department of Political Science, effective Autumn Quarter 1987, Winter Quarter and Spring Quarter 1988, to accept a Visiting Assistant Professorship at Queen's University, Kingston, Canada.

REBECCA D. JACKSON, Assistant Professor, Department of Internal Medicine, effective August 15, 1987, through September 20, 1987, for medical reasons.

DWAIN MEFFORD, Assistant Professor, Department of Political Science, effective Autumn Quarter 1987, Winter Quarter and Spring Quarter 1988, to accept a Merriam Postdoctoral Fellow at the University of Illinois Urbana/Champaign.

CRICHTON L. OGLE, Assistant Professor, Department of Mathematics, effective Winter Quarter and Spring Quarter 1988, to lecture and do research at Max-Planck Institute, I.H.E.S., Oxford University and Aarhus University.

MARGARITA L. OPHEE-MAZO, Assistant Professor, School of Music, effective Autumn Quarter 1987, Winter Quarter and Spring Quarter 1988, to accept a fellowship grant from the Woodrow Wilson International Center for Scholars at the Smithsonian Institution.

Leaves of Absence Without Salary--Continuation

ALI E. ENGIN, Professor, Department of Engineering Mechanics, effective Autumn Quarter 1987, Winter Quarter and Spring Quarter 1988, to work at Ankara University in Turkey.

MAHESH G. NERURKAR, Instructor, Department of Mathematics, effective Autumn Quarter 1987, Winter Quarter and Spring Quarter 1988, to visit Rutgers University.

Professional Improvement Leave

H. RANDOLPH BOBBITT, JR., Chairperson and Professor, Academic Faculty of Management and Human Resources, effective Winter Quarter and Spring Quarter 1988.

October 1 and 2, 1987 meeting, Board of Trustees

PERSONNEL ACTIONS (contd)

Emeritus Titles

JEAN S. BOWERS, Department of Family Resource Management, with the title Professor Emeritus, effective July 1, 1987.

R. BRUCE CURRY, Department of Agricultural Engineering, with the title Professor Emeritus, effective October 1, 1987.

ESTHER A. MEACHAM, Department of Textiles and Clothing, with the title Professor Emeritus, effective September 1, 1987.

JOHN L. PARSONS, Department of Agronomy, with the title Professor Emeritus, effective October 1, 1987.

HENRY R. VELKOFF, Department of Mechanical Engineering, with the title Professor Emeritus, effective September 1, 1987.

TRUMAN G. FOSTER, Department of Mechanical Engineering, with the title Associate Professor Emeritus, effective August 27, 1987.

WILLIAM R. RILEY, Department of Physics, with the title Associate Professor Emeritus, effective July 1, 1987.

Upon motion of Mr. Barone, seconded by Mr. Teaford, the Board of Trustees adopted the foregoing resolution by unanimous roll call vote.

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RESOLUTIONS IN MEMORIAM

Resolution No. 88-35

Synopsis: Resolutions honoring the service of two of the University's faculty members who have recently died are being proposed.

RESOLVED, That the Board adopt the following Resolutions in Memoriam and that the President be requested to convey a copy to the families of the deceased.

Ralph Currier Davis

The Board of Trustees of The Ohio State University expresses its sorrow upon the death on November 21, 1986, of Ralph Currier Davis, Professor Emeritus in the College of Business - Administration.

Professor Davis was born on December 24, 1894. He was a graduate of Cornell University with a degree in Mechanical Engineering. He received his Master of Arts from The Ohio State University and an honorary Doctor of Science from Wayne State University. He joined the faculty at Ohio State as an Assistant Professor in 1923. Upon his retirement in 1965, he was named Professor Emeritus.

Professor Davis earned a world-wide reputation for his pioneering work in the development of theories of organization and general administrative

October 1 and 2, 1987 meeting, Board of Trustees

RESOLUTIONS IN MEMORIAM (contd)

Ralph Currier Davis (contd)

management. The teaching and practice of management for many years reflected the "R. C. Davis approach" to delineation of structures and concepts. Graduate students in management sought out Ohio State University for the privilege of taking work under him. Many of his students became outstanding contributors to the field of management in their own right.

His stature in his field was recognized through numerous awards and distinctions. In 1959, he was the recipient of the Taylor Key from the Society for the Advancement of Management, and he served as Distinguished Visiting Professor at New York University in 1960.

Professor Davis's teaching was best adapted for graduate students, because of his emphasis on theoretical concepts. Students emerged from his seminars with an integrated view of the entire management process. He excelled in the teaching of principles of top management to business executives in executive development programs.

Professor Davis was co-founder, Fellow and past President of the Academy of Management. He was a Director and Officer of the Society for the Advancement of Management, and served as a consultant and speaker in the field of management for many years. He was the author of many important books, articles and papers on the science and practice of management. His widely-recognized The Fundamentals of Top Management, the culmination of a life-long effort devoted to the development of a comprehensive management philosophy, was heralded by business, government and military leaders the world over as one of the outstanding contributions to the field of management thought.

On behalf of the University community, the Board of Trustees expresses to the family of Ralph Currier Davis its deepest sympathy. It was directed that this resolution be inscribed upon the minutes of the Board of Trustees and that a copy be tendered to the family as an expression of the Board's heartfelt sympathy.

John William Hibbs

The Board of Trustees of The Ohio State University expresses its sorrow upon the death on August 19, 1987, of John William Hibbs, Professor Emeritus in the Department of Dairy Science.

Dr. Hibbs was born in 1917 in Cleveland, son of Edwin G. and Stella Thompson Hibbs. Upon graduation from Greensburg High School, he enrolled at Kent State University. Later, he transferred to The Ohio State University where he was awarded the Bachelor of Science degree in Animal Husbandry in 1940. While completing his graduate studies, he served as a research assistant in dairy industry at the OARDC. The Doctorate was presented to him in 1947; he specialized in animal nutrition and physiology.

From that time on, he worked for OARDC and The Ohio State University, becoming Associate Chairman in 1971. Upon his retirement in 1983, after 43 years of service, he was named Professor Emeritus. From November

October 1 and 2, 1987 meeting, Board of Trustees

RESOLUTIONS IN MEMORIAM (contd)

John William Hibbs (contd)

1969, until November 1971, he served in India as an adviser in animal nutrition and physiology under an OSU/U.S. Agency for International Development contract. Returning to India in 1975, he consulted for three months in the Department of Nutrition and Physiology at the National Dairy Research Center in Karnal.

Among his awards, most notable was the Borden Award in Dairy Production in 1952, followed by the American Feed Manufacturer's Award in 1962. During his career, he wrote or co-authored 441 publications and articles. He was a Fellow in the American Association for the Advancement of Science.

On behalf of the University community, the Board of Trustees expresses to the family of John William Hibbs its deepest sympathy. It was directed that this resolution be inscribed upon the minutes of the Board of Trustees, and that a copy be tendered to the family as an expression of the Board's heartfelt sympathy.

Upon motion of Mr. Teaford, seconded by Mr. Barone, the Board of Trustees adopted the foregoing resolution by unanimous voice vote.

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REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS

Resolution No. 88-36

Synopsis: The reports on contracts, grants, and gifts and the summary for August 1987 are presented for Board acceptance.

WHEREAS monies are solicited and received on behalf of the University from governmental, industrial, other agencies, alumni, and various individuals in support of research, instructional activities, and service; and

WHEREAS such gifts and grants are received through The Ohio State University Research Foundation, the Engineering Experiment Station of The Ohio State University, and The Ohio State University Development Fund:

NOW THEREFORE

BE IT RESOLVED, That the research agreement between The Ohio State University and The Ohio State University Research Foundation for the contracts and grants reported herein, and the acceptance of the reports from the Engineering Experiment Station and The Ohio State University Development Fund during the month of August 1987 be approved.

Upon motion of Mr. Kessler, seconded by Mrs. Bowser, the Board of Trustees adopted the foregoing resolution by unanimous voice vote.

October 1 and 2, 1987 meeting, Board of Trustees

REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)

SUMMARY FOR AUGUST 1987

Source	No. of Projects	Support Level
The Ohio State University Research Foundation	128	\$10,287,810.46
Engineering Experiment Station	43	767,341.00
Total	171	\$11,055,151.46

The Ohio State University Development Fund

Establishment of Named Fund

The Antoinette Lowry Barr Scholarship Fund (Scholarships for graduate students in education)	\$	50,000.00
The Landscape Architecture Lecture Fund (Funding lectures on landscape architecture)	\$	15,000.00
The Rodney F. Plimpton, Jr., Memorial Scholarship Fund in Animal/Meat Science (Scholarships)	\$	15,000.00
The Florence Levy Miller and I. George Miller Memorial Scholarship Fund (Scholarships for students majoring in Family Relations and Human Development)	\$	10,330.00
The Norman R. Sleight Newark Campus Scholarship Fund (Scholarships)	\$	5,000.00

Change in Description of Named Funds

Nicholas D. and Evangeline Jonson Memorial
Scholarship Fund

Kappa Phi Kappa Fund

The Ohio State University Campaign
Progress Report
Through June 30, 1987
(University Development/DSP Combined)

	<u>*Campaign Expectancies</u>	<u>Current Year Campaign Receipts (July-June 87)</u>	<u>Previous Years' Campaign Receipts As of June 30, 1986</u>	<u>Total</u>	<u>Goal</u>	<u>Campaign % Achieved</u>	
Alumni	\$48,493,651	\$15,404,496	\$12,112,433	\$76,010,580	\$122,500,000		62
Friends	35,030,834	10,174,960	10,625,810	55,831,604	70,000,000		80
**Corporations	12,221,735	34,249,425	32,588,581	79,059,741	122,500,000		65
Foundations	<u>3,495,500</u>	<u>4,941,117</u>	<u>3,984,411</u>	<u>12,421,028</u>	<u>35,000,000</u>		35
Totals	\$99,241,720	\$64,769,998	\$59,311,235	\$223,322,953	\$350,000,000		64

*Defined as pledges and deferred commitments less payments already received.

**Corporations, businesses, associations and private agencies.

REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (cont'd)

THE OHIO STATE UNIVERSITY
OFFICE OF UNIVERSITY DEVELOPMENT
TOTAL UNIVERSITY PRIVATE GIFT SUPPORT

July-June
1985-86 compared to 1986-87

GIFT RECEIPTS BY DONOR TYPE

	Donors			Dollars			
	July through June 1985-86	July through June 1986-87	% Change	July through June 1985-86	July through June 1986-87	% Change	
Alumni	47,154	51,015		8	\$9,681,743	\$15,404,496	59
Non-Alumni	27,016	27,034		-	6,498,996	10,174,960	57
Corporations	1,705	1,956		15	14,931,649	20,250,548	36
Corporate Foundations	249	286		15	1,968,910	2,167,649	10
Private Foundations	124	138		11	3,758,048	4,941,117	31
Other	<u>748</u>	<u>811</u>		8	<u>13,554,716</u>	<u>11,831,228</u>	(13)
TOTAL	76,996	81,240		6	\$50,394,062	\$64,769,998	29

October 1 and 2, 1987 meeting, Board of Trustees

REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)

THE OHIO STATE UNIVERSITY RESEARCH FOUNDATION

Report - August 1987

Federal Research Contracts/Grants

\$1,626,677.00 - National Science Foundation, Washington, D.C., Engineering Research Center for Net Shape Manufacturing, Engineering Experiment Station (T. Altan), 1 May 1987 through 30 April 1988. (Project 765393 - Continuation)

\$871,500.00 - Department of Health and Human Services, Public Health Service, National Institutes of Health, Bethesda, Maryland, Spinal Cord Injury Research Center, Department of Surgery (W. E. Hunt) and Department of Physiology (B. T. Stokes), 1 September 1987 through 31 August 1988. (Project 763358 - Continuation)

\$672,904.00 - Department of Education, Office of Special Education and Rehabilitation Services, Washington, D.C., Services for Deaf-Blind Children and Youth, College of Education - Administration (T. M. Stephens), 1 October 1987 through 30 September 1988. (Project 766294 - Continuation)

\$321,802.00 - Department of Health and Human Services, Public Health Service, National Institutes of Health, Bethesda, Maryland, Department of Pathology (D. L. Fry), 1 September 1987 through 31 August 1988. (Project 763184 - Continuation)

\$257,784.00 - Department of Health and Human Services, Public Health Service, National Institutes of Health, Bethesda, Maryland, Biogenesis of Mitochondria in Neurospora, Department of Molecular Genetics (A. M. Lambowitz), 1 September 1987 through 31 August 1988. (Project 765538 - Continuation)

\$194,803.00 - Department of Health and Human Services, Public Health Service, National Institutes of Health, Bethesda, Maryland, Population and Evolutionary Genetics of Organelles, Department of Molecular Genetics (G. W. Birky, Jr.), 1 September 1987 through 31 August 1988. (Project 764994 - Continuation)

\$175,113.00 - Department of Health and Human Services, Public Health Service, National Institutes of Health, Bethesda, Maryland, Fragment Crystallizable Receptor Structure and Function, Department of Internal Medicine (C. L. Anderson), 1 September 1987 through 31 August 1988. (Project 765701 - Continuation)

\$174,849.00 - Department of Health and Human Services, Public Health Service, Alcohol, Drug Abuse, and Mental Health Administration, Rockville, Maryland, Personality, Psychological Stress, and Immuno-competence, Department of Medical Microbiology and Immunology (M. R. Glaser) and Department of Psychiatry (J. Klecolt-Glaser), 1 September 1987 through 31 August 1988. (Project 764961 - Continuation)

\$169,000.00 - Department of Agriculture, Science and Education, Washington, D.C., Anaerobic Metabolism in Echinochloa crusgalli (barnyard grass) Seed, Department of Horticulture-OARDC and Department of

October 1 and 2, 1987 meeting, Board of Trustees

REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)

THE OHIO STATE UNIVERSITY RESEARCH FOUNDATION (contd)

Federal Research Contracts/Grants (contd)

Horticulture (R. A. Kennedy), 1 August 1987 through 31 July 1989.
(Project 766298 - New)

\$163,339.00 - Department of Health and Human Services, Public Health Service, Alcohol, Drug Abuse, and Mental Health Administration, Rockville, Maryland, Antidepressant Drugs in Treatment of Anxiety Disorders, Department of Psychiatry (M. R. Mavissakalian), 1 September 1987 through 31 August 1988. (Project 765702 - Continuation)

\$148,188.00 - Department of Health and Human Services, Public Health Service, National Institutes of Health, Bethesda, Maryland, Tumor-Localizing Boron Compounds for Chemoradiotherapy, College of Pharmacy (A. H. Soloway) and Department of Pathology (R. F. Barth), 1 September 1987 through 31 August 1988. (Project 765629 - Continuation)

\$147,869.00 - International Development Cooperative Agency, Washington, D.C., U.S. AID Program Support Grant for Fiscal Years 1986-90, Office of International Programs in Agriculture (D. O. Hansen), 1 July 1987 through 28 August 1988. (Project 765750 - Continuation)

\$139,899.00 - Department of Health and Human Services, Public Health Service, National Institutes of Health, Bethesda, Maryland, Development of Cerebellar Circuits, Department of Anatomy (J. S. King), 1 September 1987 through 31 August 1988. (Project 760045 - Continuation)

\$135,000.00 - Department of Agriculture, Science and Education, Washington, D.C., Porcine IgG Receptors in Developing and Lactating Mammary Gland, Department of Animal Science-OARDC (F. A. Simmen and R. C. Simmen), 1 August 1987 through 31 July 1990. (Project 766326 - New)

\$134,402.00 - Department of Health and Human Services, Public Health Service, National Institutes of Health, Bethesda, Maryland, Reduction of Doxorubicin Cardiotoxicity by ICRF-187, Department of Internal Medicine (D. V. Unverferth), 1 August 1987 through 31 July 1988. (Project 765637 - Continuation)

\$129,622.00 - Environmental Protection Agency, Washington, D.C., Role of Xenobiotics in Modifying Replicating DNA, Department of Physiological Chemistry and Cancer Research Center (G. E. Milo), 1 August 1986 through 31 July 1988. (Project 765679 - Continuation)

\$127,000.00 - National Science Foundation, Washington, D.C., Formation of Hybrid Natural Products by Interspecies Cloning of Streptomyces, Department of Chemistry (H. G. Floss) and Department of Microbiology (W. R. Strohl), 1 August 1987 through 31 January 1989. (Project 765635 - Continuation)

\$126,000.00 - Department of Energy, Argonne, Illinois, Molecular Ferromagnetism, Department of Physics and Department of Chemistry (A. J. Epstein), 1 August 1987 through 31 July 1988. (Project 765592 - Continuation)

October 1 and 2, 1987 meeting, Board of Trustees

REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)

THE OHIO STATE UNIVERSITY RESEARCH FOUNDATION (contd)

Federal Research Contracts/Grants (contd)

\$123,056.00 - Department of Health and Human Services, Public Health Service, National Institutes of Health, Bethesda, Maryland, Stochastic Fourier Transform Ion Cyclotron Resonance Mass Spectrometry, Department of Chemistry, Department of Biochemistry and Chemical Instrumentation Center (A. G. Marshall), 1 September 1987 through 31 August 1988. (Project 763504 - Continuation)

\$122,429.00 - Department of Health and Human Services, Public Health Service, National Institutes of Health, Bethesda, Maryland, Cardiac Myocytes and the Cellular Response to Ischemia, Department of Physiological Chemistry (G. P. Brierley), 30 September 1987 through 29 September 1988. (Project 765733 - Continuation)

\$120,000.00 - National Science Foundation, Washington, D.C., The Ohio State University Materials Research Laboratory, Materials Research Laboratory (J. R. Gaines), 1 July 1987 through 30 June 1988. (Project 764920 - Continuation)

\$117,400.00 - National Science Foundation, Washington, D.C., Chemistry and Electrochemistry of Hot Corrosion of Metals, Department of Metallurgical Engineering (R. A. Rapp), 1 August 1987 through 31 July 1988. (Project 766299 - New)

\$110,284.00 - Department of Health and Human Services, Public Health Service, National Institutes of Health, Bethesda, Maryland, Excitatory Amino Acids in the Nucleus Accumbens, College of Pharmacy (N. J. Uretsky), 1 September 1987 through 31 August 1988. (Project 765017 - Continuation)

\$102,404.00 - Department of Health and Human Services, Public Health Service, National Institutes of Health, Bethesda, Maryland, Immunoprevention of Human T-Cell Leukemia Virus-I Infection, Department of Veterinary Pathobiology (R. G. Olsen and L. E. Mathes), 1 August 1987 through 31 July 1988. (Project 765057 - Continuation)

\$94,547.00 - Department of Education, Office of Special Education and Rehabilitation Services, Washington, D.C., Investigation of a Study Technique to Increase Learning Disabled Students' Reading Comprehension of Expository Text, Department of Human Services Education (J. O. Cooper and S. McCormick), 1 October 1987 through 30 September 1988. (Project 765043 - Continuation)

\$94,367.00 - Department of Health and Human Services, Public Health Service, National Institutes of Health, Bethesda, Maryland, Inhibitory Mechanism of Gossypol on Tapeworm, Department of Veterinary Pathobiology (Y. Rikihisa), 1 September 1987 through 31 August 1988. (Project 765683 - Continuation)

\$93,019.00 - Department of Health and Human Services, Public Health Service, National Institutes of Health, Bethesda, Maryland, Studies on the Dextran Sucrase of Streptococcus Sanguis, Department of Chemistry (R.

October 1 and 2, 1987 meeting, Board of Trustees

REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)

THE OHIO STATE UNIVERSITY RESEARCH FOUNDATION (contd)

Federal Research Contracts/Grants (contd)

M. Mayer), 1 September 1987 through 31 August 1988. (Project 760160 - Continuation)

\$86,400.00 - Department of Health and Human Services, Public Health Service, National Institutes of Health, Bethesda, Maryland, Geriatric Leadership Academic Award, Department of Internal Medicine (R. L. Whisler), 1 September 1987 through 31 August 1988. (Project 766318 - New)

\$82,053.00 - Department of Health and Human Services, Public Health Service, National Institutes of Health, Bethesda, Maryland, The Spectral Sensitivities of Turtle Photoreceptors, Department of Zoology (L. E. Lipetz), 1 September 1987 through 31 August 1988. (Project 762642 - Continuation)

\$80,000.00 - National Science Foundation, Washington, D.C., Benefit Cost Analysis and Public Decisions Concerning Natural Resources and Environment: A Study in Ethics and Values, Department of Agricultural Economics and Rural Sociology - OARDC and Department of Agricultural Economics and Rural Sociology (A. J. Randall) and Department of Philosophy (D. C. Hubin), 1 August 1987 through 31 January 1990. (Project 766280 - New)

\$78,346.00 - Department of Education, Office of Special Education and Rehabilitation Services, Washington, D.C., Inservice Training of Teachers on Communications Skills Training and Functionally-Referenced Curriculum to Benefit Severely Handicapped Students Including Deaf-Blind, College of Education - Administration (T. M. Stephens), 1 September 1987 through 31 August 1988. (Project 765650 - Continuation)

\$75,000.00 - National Science Foundation, Washington, D.C., Molecular Genetics of Extracellular Polysaccharide Synthesis in Erwinia stewartii, Department of Plant Pathology-OARDC and Department of Plant Pathology (D. L. Coplin), 1 October 1987 through 30 September 1988. (Project 766330 - New)

\$71,331.00 - Department of Health and Human Services, Public Health Service, National Institutes of Health, Bethesda, Maryland, Adaptive Mechanisms of Accommodation and Convergence, College of Optometry (R. Jones), 1 September 1987 through 31 August 1988. (Project 765633 - Continuation)

\$70,000.00 - Department of Education, Office of Educational Research and Improvements, Washington, D.C., Medieval Slavic Manuscripts in Microform: A Proposal for Preservation and Bibliographic Access, University Libraries (J. B. Fatzer), 1 October 1987 through 30 September 1988. (Project 765545 - Continuation)

\$65,798.00 - Department of Education, Office of Special Education and Rehabilitation Services, Washington, D.C., Training Grant in Rehabilitation Counseling, Department of Human Services Education (B. Growick and M. A. Klein), 1 September 1987 through 31 August 1988. (Project 765724 - Continuation)

October 1 and 2, 1987 meeting, Board of Trustees

REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)

THE OHIO STATE UNIVERSITY RESEARCH FOUNDATION (contd)

Federal Research Contracts/Grants (contd)

\$65,554.00 - National Science Foundation, Washington, D.C., Fluid Flow and Cleanliness of Steel in Continuous Casting Tundishes, Department of Metallurgical Engineering (Y. Sahai), 1 July 1987 through 30 June 1988. (Project 765636 - Continuation)

\$65,338.00 - Department of Health and Human Services, Public Health Service, National Institutes of Health, Bethesda, Maryland, Parameter Identification of Human Postural Control, Department of Otolaryngology (K. Barin), 1 September 1987 through 31 August 1988. (Project 764984 - Continuation)

\$64,135.00 - Department of Education, Office of Special Education and Rehabilitation Services, Washington, D.C., Parent-Child Conversation: A Longitudinal Project for Research into Intervention with Language-Delayed Handicapped Children, Nisonger Center (J. MacDonald), 1 October 1987 through 30 September 1988. (Project 764417 - Continuation)

\$62,500.00 - National Science Foundation, Washington, D.C., Presidential Young Investigator Award, Department of Metallurgical Engineering (R. H. Wagoner), 1 July 1987 through 30 June 1988. (Project 764071 - Continuation)

\$60,000.00 - National Science Foundation, Washington, D.C., Inelastic Light Scattering Studies of Quantum-Layered Semi-conductors and Metallic Microstructures, Department of Physics (R. Sooryakumar), 1 July 1987 through 31 October 1988. (Project 766205 - New)

\$59,761.00 - Department of the Air Force, Air Force Systems Command, Bolling Air Force Base, D.C., Fundamental Research on Erosion in Magnetoplasmadynamic Thrusters, Department of Mechanical Engineering (J. W. Rich), 30 September 1987 through 29 September 1988. (Project 766307 - New)

\$55,935.00 - National Science Foundation, Washington, D.C., Behavioral and Neural Plasticity in the Developing Brain, Department of Psychology (J. P. Bruno), 14 August 1987 through 31 August 1988. (Project 766304 - New)

\$55,000.00 - National Science Foundation, Washington, D.C., An Integrated Task Approach to Expert Systems for Fault Diagnosis, Department of Chemical Engineering (J. F. Davis) and Department of Computer and Information Science (B. Chandrasekaran), 1 August 1987 through 31 January 1989. (Project 766282 - New)

\$54,391.00 - National Science Foundation, Washington, D.C., A "True" AC-Model for the MODFET, Department of Electrical Engineering (P. Roblin), 1 October 1987 through 31 March 1989. (Project 765676 - Continuation)

\$51,682.00 - Department of Health and Human Services, Public Health Service, National Institutes of Health, Bethesda, Maryland, Dietary Induced Aluminum Encephalopathy, Department of Veterinary Pathobiology

October 1 and 2, 1987 meeting, Board of Trustees

REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)

THE OHIO STATE UNIVERSITY RESEARCH FOUNDATION (contd)

Federal Research Contracts/Grants (contd)

(J. F. Long), 1 September 1987 through 31 August 1988. (Project 765717 - Continuation)

\$50,633.00 - Department of Health and Human Services, Public Health Service, National Institutes of Health, Bethesda, Maryland, Gustatory Afferent Organization in the Solitary Nucleus, Oral Biology (S. P. Travers), 1 September 1987 through 31 August 1988. (Project 765694 - Continuation)

\$50,000.00 - Department of Energy, Argonne, Illinois, High Energy Physics - Experimental Program (Task A) Search for Neutrino Oscillations at LAMPF (E-645), Department of Physics (T. A. Romanowski, T. Ling, K. D. Lane, S. S. Pinsky, W. W. Wada, N. W. Reay, K. Reibel, N. R. Stanton, H. P. Kagan, R. D. Kass, J. Shigemitsu, A. J. Niemi, G. Stiegman and W. F. Palmer), 1 August 1987 through 31 December 1987. (Project 762116 - Continuation)

\$50,000.00 - Department of the Navy, Office of Naval Research, Washington, D.C., Stable Compositions for Fluoride Glasses, Department of Ceramic Engineering (P. K. Gupta), 2 July 1987 through 1 January 1989. (Project 766261 - New)

\$48,516.00 - Department of Energy, Argonne, Illinois, Theoretical Studies of Dynamics and Correlations in Heavy Electron Materials, Department of Physics (D. L. Cox), 15 August 1987 through 14 August 1988. (Project 766287 - New)

\$46,428.00 - Department of Health and Human Services, Public Health Service, National Institutes of Health, Bethesda, Maryland, Affinity Probes for Retinoic Acid-Binding Proteins, College of Pharmacy (R. W. Curley), 1 August 1987 through 31 July 1988. (Project 765069 - Continuation)

\$43,938.00 - Department of Health and Human Services, Public Health Service, National Institutes of Health, Bethesda, Maryland, Preclinical Pharmacology Investigations of Antitumor Agents, College of Pharmacy (L. Malspeis), 31 July 1987 through 31 October 1987. (Project 765385 - Continuation)

\$40,000.00 - National Science Foundation, Washington, D.C., Purchase of an Electron Spin Resonance (ESR) Spectrometer, Department of Chemistry (L. J. Berliner, D. H. Busch, M. S. Platz and A. G. Marshall) and Chemical Instrumentation Center and Department of Biochemistry (A. G. Marshall), 1 September 1987 through 28 February 1990. (Project 766284 - New)

\$35,384.00 - National Aeronautics and Space Administration, Washington, D.C., Analysis of ATMOS Occultation Spectra, Department of Physics (J. H. Shaw), 1 July 1987 through 30 June 1988. (Project 766291 - New)

\$35,000.00 - Department of Energy, Washington, D.C., Energy Reactor Sharing Program, Engineering Experiment Station (R. D. Myser), 1 September 1987 through 31 August 1988. (Project 762411 - Continuation)

October 1 and 2, 1987 meeting, Board of Trustees

REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)

THE OHIO STATE UNIVERSITY RESEARCH FOUNDATION (contd)

Federal Research Contracts/Grants (contd)

\$30,500.00 - National Science Foundation, Washington, D.C., The Definable Continuum Hypothesis, Department of Mathematics (M. Foreman), 1 July 1987 through 31 December 1989. (Project 766272 - New)

\$28,650.00 - National Science Foundation, Washington, D.C., Spectroscopic Observations of Active Galactic Nuclei, Department of Astronomy (B. M. Peterson), 1 August 1987 through 30 April 1989. (Project 766292 - New)

\$26,929.00 - Department of the Army, Army Material Command, Natick, Massachusetts, Water Purification Devices, Department of Civil Engineering (A. J. Rubin), 6 August 1987 through 5 August 1989. (Project 766319 - New)

\$24,735.00 - National Aeronautics and Space Administration, Lewis Research Center, Cleveland, Ohio, Lubrication of Triboelements, Department of Mechanical Engineering (B. J. Hamrock), 1 July 1987 through 30 September 1989. (Project 766311 - New)

\$21,900.00 - National Science Foundation, Washington, D.C., Relaxation and Magnetic Ordering in Highly Polarized Spin Systems, Department of Physics (J. R. Gaines), 1 August 1987 through 31 July 1988. (Project 764313 - Continuation)

\$21,208.00 - National Science Foundation, Washington, D.C., The Urban Development Process and the Rise of the New Spatial Politics, Department of Geography (K. R. Cox), 1 July 1987 through 30 June 1988. (Project 765515 - Continuation)

\$20,262.00 - National Science Foundation, Washington, D.C., Applications of Algebraic Geometry to Quasi-Periodic Soliton Theory, Department of Mathematics (M. G. Forest), 1 May 1987 through 30 April 1988. (Project 764465 - Continuation)

\$20,000.00 - National Science Foundation, Washington, D.C., Collaborative Research: Climatic History of the Western Amazon Basin and the Equatorial Andes Since 18K, Department of Zoology (P. A. Colinvaux), 1 August 1987 through 31 July 1988. (Project 766323 - New)

\$17,800.00 - National Aeronautics and Space Administration, Washington, D.C., The Potential Role of Calmodulin in the Gravitropic Response, Department of Botany (M. L. Evans and C. L. Stinemetz), 1 June 1987 through 31 May 1988. (Project 764741 - Continuation)

\$16,750.00 - National Science Foundation, Washington, D.C., Mathematical Sciences: Cohomology of Arithmetic Groups, Department of Mathematics (A. D. Ash), 15 June 1987 through 30 November 1988. (Project 766269 - New)

\$15,472.00 - Department of Health and Human Services, Public Health Service, National Institutes of Health, Bethesda, Maryland, Mechanical Control and Energetics of Muscle Contraction, Department of Physiology (E. Bozler), 1 September 1987 through 31 August 1988. (Project 760924 - Continuation)

October 1 and 2, 1987 meeting, Board of Trustees

REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)

THE OHIO STATE UNIVERSITY RESEARCH FOUNDATION (contd)

Federal Research Contracts/Grants (contd)

\$15,000.00 - Department of the Army, Army Research Office, Research Triangle Park, North Carolina, The Chemistry of Hexaazotriphenylene Hexanitrile, A Polyfunctional Heterocycle With Potential Utility In The Formulation of Thermostable Polymers, Department of Chemistry (A. W. Czarnik), 1 August 1987 through 31 July 1988. (Project 764885 - Continuation)

\$12,650.00 - Department of Health and Human Services, Public Health Service, National Institutes of Health, Bethesda, Maryland, A 60 Kilodalton (Kd) Oncofetal Protein Associated with Carcinogenesis, Department of Physiological Chemistry (T. E. Webb), 1 August 1986 through 31 January 1988. (Project 765588 - Continuation)

\$10,000.00 - Department of the Interior, National Park Service, Washington, D.C., Interpreting Biological Diversity Issues, Department of Natural Resources-OARDC and School of Natural Resources (R. W. Mullins) and School of Natural Resources (J. L. Heywood and R. W. Fortner), 1 July 1987 through 30 September 1988. (Project 766309 - New)

\$8,000.00 - National Science Foundation, Washington, D.C., Mathematical Sciences: Investigations in the Theory of Orthogonal Polynomials, Department of Mathematics (P. Nevai), 1 July 1987 through 31 December 1988. (Project 764661 - Continuation)

\$7,463.00 - Environmental Protection Agency, Chicago, Illinois, Acid Deposition Monitoring Program for Western Lake Erie, Center for Lake Erie Area Research (C. E. Herdendorf), 1 July 1987 through 30 June 1988. (Project 763579 - Continuation)

\$6,840.00 - Department of Agriculture, Science and Education, Fort Collins, Colorado, Seed Deterioration Studies, Department of Agronomy - OARDC and Department of Agronomy (M. B. McDonald), 15 December 1986 through 30 June 1987. (Project 766274 - New)

\$5,067.00 - Department of Health and Human Services, Public Health Service, National Institutes of Health, Bethesda, Maryland, Kodak Ektachem DT 60 Analyzer System, College of Nursing - Administration (K. S. Stone), 1 August 1987 through 31 July 1988. (Project 766300 - New)

\$3,304.00 - National Science Foundation, Washington, D.C., Dissertation Research: The Influence of Competition and Environmental Heterogeneity on the Movement Patterns of a Benthic Invertebrate, Department of Zoology (P. L. Chesson and R. A. Stein), 15 June 1987 through 30 November 1988. (Project 766306 - New)

\$688.00 - Department of Health and Human Services, Public Health Service, National Institutes of Health, Bethesda, Maryland, Endotracheal Suctioning in Acutely Ill Adults, Department of Life Span Process (K. S. Stone), 1 April 1987 through 31 March 1988. (Project 765998 - Continuation)

TOTAL - FEDERAL AWARDS

\$8,609,598.00

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REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)

THE OHIO STATE UNIVERSITY RESEARCH FOUNDATION (contd)

State of Ohio Research Contracts/Grants

\$294,000.00 - State of Ohio, Department of Development, Columbus, Ohio, Phase II of the Ohio Superconducting Super Collider Siting Task Force, Research & Graduate Studies Administration (J. M. Hollander), 1 February 1987 through 30 June 1989. (Project 765972 - Continuation)

\$250,000.00 - State of Ohio, Commission on Aging, Columbus, Ohio, OSU Alzheimer's Disease Research Center, College of Medicine - Administration (G. L. Trzebiatowski), 1 July 1987 through 29 February 1988. (Project 766254 - New)

\$124,533.00 - State of Ohio, Department of Education, Columbus, Ohio, Labor Market Information Development, Center for Human Resource Research (H. R. Blaine) and Academic Faculty of Management and Human Resources (S. Mangum), 1 July 1987 through 30 June 1988. (Project 766276 - Continuation)

\$94,970.00 - State of Ohio, Department of Development, Columbus, Ohio, Youth Correction and Population Management in Ohio: A Policy Development Project, School of Public Administration (C. R. Huff), 1 July 1987 through 30 June 1988. (Project 766240 - New)

\$44,000.00 - State of Ohio, Board of Regents, Columbus, Ohio, Numerical Problem Solving Pre-Algebra Project, Department of Educational Theory and Practice (A. Osborne) and Department of Mathematics (F. Demana), 1 August 1987 through 31 December 1988. (Project 766286 - New)

\$40,000.00 - State of Ohio, Department of Mental Health, Columbus, Ohio, Proposal for Level II Funding Forensic Psychology Traineeship, Department of Psychology (H. L. Mirels), 1 July 1987 through 30 June 1988. (Project 766310 - New)

\$31,858.00 - State of Ohio, Department of Education, Columbus, Ohio, Ohio Ventures in Business Ownership Project, The National Center for Research in Vocational Education (R. D. Ryan, Jr.), 1 July 1987 through 30 June 1988. (Project 766295 - New)

\$23,000.00 - State of Ohio, Department of Mental Health, Columbus, Ohio, Bereavement in Children -- Six Month Follow-Up, Department of Psychiatry (E. B. Weller), 26 May 1987 through 30 June 1988. (Project 766302 - New)

\$17,875.00 - State of Ohio, Department of Natural Resources, Columbus, Ohio, Geodetic Advisor for the State of Ohio, Center for Mapping (J. D. Bossler), 1 July 1987 through 30 June 1988. (Project 766336 - New)

\$7,840.00 - State of Ohio, Industrial Commission, Columbus, Ohio, Graduate Student Internships, Department of Human Services Education (D. J. Tosi and P. S. Wise), 1 July 1987 through 31 August 1987. (Project 766325 - Continuation)

\$5,000.00 - State of Ohio, Department of Rehabilitation and Correction, Columbus, Ohio, A Third-Party Evaluation of Clients' Satisfaction with Technical Assistance, The National Center for Research in Vocational

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REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)

THE OHIO STATE UNIVERSITY RESEARCH FOUNDATION (contd)

State of Ohio Research Contracts/Grants (contd)

Education (R. D. Ryan, Jr.), 5 June 1987 through 28 February 1988.
(Project 766322 - New)

\$3,000.00 - State of Ohio, Department of Natural Resources, Columbus, Ohio, The Integration of Remotely-Sensed Data with Computer Based Land and Water Quality Data for the Evaluation of Alternative Land Management Practices within the Big Darby Creek Watershed, Department of Landscape Architecture (J. W. Simpson), 1 July 1987 through 1 June 1988. (Project 766321 - New)

\$1,375.00 - State of Ohio, Ohio Arts Council, Columbus, Ohio, OSU Gallery Film and Video Series, College of The Arts - Administration (J. W. Green), 30 August 1987 through 30 June 1988. (Project 766156 - Continuation)

\$103.00 - State of Ohio, Ohio Arts Council, Columbus, Ohio, Kurt Jooss' The Green Table, Department of Dance (O. Blum), 1 December 1987 through 31 May 1988. (Project 766157 - Continuation)

TOTAL - STATE OF OHIO AWARDS \$ 937,554.00

Industrial Research Contracts/Grants

\$90,926.00 - The Lubrizol Corporation, Wickliffe, Ohio, The Relative Effects of Diets Containing High-oleic Sunflower Oil, Corn Oil, or Butter on Serum Lipids in Men, School of Allied Medical Professions (G. M. Wardlaw) and Department of Human Nutrition and Food Management (J. T. Snook), 1 September 1987 through 31 August 1988. (Project 766293 - New)

\$58,154.00 - Tektronix, Inc., Vancouver, Washington, Assisting Tektronix, Inc., in Marketing to Postsecondary Institutions, National Center for Research in Vocational Education (R. D. Ryan, Jr.), 1 August 1987 through 30 September 1988. (Project 765831 - Continuation)

\$56,148.96 - Wyeth Laboratories, Philadelphia, Pennsylvania, Phase II Evaluation of the Hemodynamic Effects of Intravenous Recainam in Patients Undergoing Elective Cardiac Catheterization, Department of Internal Medicine (D. B. Van Fossen and C. A. Bush), 1 August 1987 through 31 January 1988. (Project 766289 - New)

\$52,500.00 - Teledyne Incorporated, Toledo, Ohio, Propfan Characterization Study, Department of Electrical Engineering, ElectroScience Laboratory (L. Peters, Jr.), 1 June 1987 through 31 May 1988. (Project 766312 - New)

\$26,270.00 - Triton Biosciences, Inc., Alameda, California, Open-Label Phase I/II Study to Evaluate the Safety of Combination Therapy with AZT and Betaseron in Patients with AIDS or Poor-Prognosis AIDS-Related Complex, Department of Internal Medicine (J. J. Rinehart), 1 August 1987 through 31 July 1988. (Project 766301 - New)

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REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)

THE OHIO STATE UNIVERSITY RESEARCH FOUNDATION (contd)

Industrial Research Contracts/Grants (contd)

\$21,237.50 - CIBA-GEIGY Corporation, Summit, New Jersey, Humanitarian Use of Anafranil in Obsessive-Compulsive Disorder, Department of Psychiatry (M. R. Mavissakalian), 5 August 1987 through 14 August 1988. (Project 765782 - Continuation)

\$20,578.00 - CeramPhysics Incorporated, Westerville, Ohio, Theoretical Model of a Cryovaristor in High Switching Applications, Department of Physics (B. R. Patton), 1 February 1987 through 30 September 1987. (Project 766324 - New)

\$17,500.00 - General Electric Company, Milwaukee, Wisconsin, Development and Evaluation of Magnetic Resonance Technology Directed Toward Morphologic and Biochemical Analysis of Abnormalities, Department of Radiology (W. W. Hunter, Jr.), 1 July 1987 through 30 June 1988. (Project 764577 - Continuation)

\$13,297.00 - World Book Encyclopedia, Chicago, Illinois, Graduate Student Practicum, College of Education - Administration (T. M. Stephens), 1 October 1987 through 30 September 1988. (Project 766316 - Continuation)

\$8,750.00 - Robinson (H S) Engineering Associates, San Carlos, California, Test of an RC05 Airfoil Model, Department of Aeronautical and Astronautical Engineering (G. M. Gregorek), 15 July 1987 through 15 September 1987. (Project 766305 - New)

\$8,700.00 - General Electric Company, Cincinnati, Ohio, Definition and Development of a Data Acquisition System for NASP Aeromechanical Development Rig, Department of Aeronautical and Astronautical Engineering (R. J. Freuler), 30 July 1987 through 31 December 1987. (Project 766320 - New)

\$7,479.00 - Vistakon, Inc., Jacksonville, Florida, Corneal Endothelial Changes During Three Months of Hydrogel (Vistamarc) Extended Wear, College of Optometry (J. P. Schoessler), 1 August 1987 through 31 January 1988. (Project 766281 - New)

\$5,100.00 - CeramPhysics, Inc., Westerville, Ohio, Monolithic Ceramic Superconductor Development, Department of Physics (B. R. Patton), 1 July 1987 through 30 September 1987. (Project 766308 - New)

\$1,000.00 - CIBA-GEIGY Corporation, Greensboro, North Carolina, Evaluation of Candidate Materials for the Control of Ectoparasitic Insects, Department of Entomology (W. F. Hink, Jr.), 1 June 1987 through 1 November 1987. (Project 766087 - Continuation)

\$568.00 - Burroughs Wellcome Company, Research Triangle Park, North Carolina, Dose-Range Finding and Safety of BW t-PA When Given by Continuous Intravenous Infusion For up to 24 Hours to Patients with Acute Myocardial Infarction, Department of Internal Medicine (R. D. Magorien), 9 September 1986 through 30 June 1988. (Project 765933 - Continuation)

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REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)

THE OHIO STATE UNIVERSITY RESEARCH FOUNDATION (contd)

Industrial Research Contracts/Grants (contd)

Equipment - American Electric Power Service Corporation, Columbus, Ohio, Center for Commercialization of Space Membership Agreement, Center for Mapping (J. D. Bossler), 13 August 1987 through 31 August 1991. (Project 766219 - New) (Approximate Dollar Value - \$169,500)

Equipment - Xerox Corporation, Palo Alto, California, Equipment Request to Xerox Corporation, Department of Computer and Information Science (B. Chandrasekaran and S. A. Mamrak), 1 September 1987 through 31 May 1988. (Project 764969 - Continuation) (Approximate Dollar Value - \$45,000)

TOTAL - INDUSTRIAL AWARDS **\$ 388,208.46**

Other Non-Federal Research Contracts/Grants

\$36,865.00 - Charles Stewart Mott Foundation, Flint, Michigan, Education for a Changing Economy: A Cooperative Effort to Prepare Postsecondary Institutions for Auto Worker Retraining in Flint, Michigan, The National Center for Research in Vocational Education, (R. D. Ryan, Jr.), 1 June 1987 through 31 January 1988. (Project 766245 - New)

\$35,000.00 - University of Pennsylvania, Philadelphia, Pennsylvania, Quantifying Spruce Decline and Related Forest Characterization on Whiteface Mountain, New York, Laboratory for Environmental Science-OARDC (T. C. Weidensaul), 1 June 1987 through 31 May 1988. (Project 766285 - Continuation)

\$33,000.00 - American Heart Association, Dallas, Texas, How do Actin and Gap Filaments Align at the Facia Adherens?, Department of Veterinary Anatomy (M. Yamaguchi), 1 October 1987 through 30 September 1988. (Project 766328 - New)

\$30,000.00 - California Institute of Technology, Pasadena, California, Comparative Design Study of Locomotion Systems for a Mars Rover, Department of Mechanical Engineering (K. J. Waldron), 16 April 1986 through 30 June 1988. (Project 765330 - Continuation)

\$24,103.00 - Purdue University, West Lafayette, Indiana, Improving the Geological Interpretation of Magnetic and Gravity Satellite Anomalies, Department of Geology and Mineralogy (R. R. B. Von Frese), 1 June 1987 through 31 May 1988. (Project 766296 - New)

\$23,858.00 - University of Arkansas, Fayetteville, Arkansas, Consortium for the Development of Professional Materials for Vocational Education, The National Center for Research in Vocational Education (R. D. Ryan, Jr.), 1 August 1987 through 30 June 1988. (Project 766288 - New)

\$20,000.00 - The Columbus Foundation, Columbus, Ohio, Needs Assessment and Survey of Columbus Area Women, Academic Faculty of Labor Education and Research Services (S. L. Josephs) and Center for Womens Studies (M. M. Fonow), 1 October 1987 through 30 June 1988. (Project 766317 - New)

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REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)

THE OHIO STATE UNIVERSITY RESEARCH FOUNDATION (contd)

Other Non-Federal Research Contracts/Grants (contd)

\$18,100.00 - Texas A & M Research Foundation, College Station, Texas, Study of the Neogene Package, Department of Geology and Mineralogy (L. Krissek), 24 August 1987 through 18 November 1987. (Project 766303 - New)

\$18,000.00 - American Heart Association, Central Ohio Heart Chapter, Inc., Columbus, Ohio, Doppler Indices of Diastolic Function: Effects of Heart Rate, Department of Internal Medicine (P. F. Binkley and S. C. Hirsch), 1 July 1987 through 30 June 1988. (Project 766258 - New)

\$17,160.00 - Pennsylvania State University, University Park, Pennsylvania, Measurement of Forest Condition and Response Along an Atmospheric Deposition Gradient, Laboratory for Environmental Science - OARDC, (J. R. McClenahan), 1 October 1986 through 30 September 1987. (Project 766278 - New)

\$16,000.00 - Eight Members of the National Alliance of Community and Technical Colleges, The National Center for Research in Vocational Education (R. D. Ryan, Jr.), 1 July 1987 through 30 June 1988. (Project 766171 - Continuation)

\$12,878.00 - Capital University, Columbus, Ohio, Student Personnel in Higher Education, Department of Educational Policy and Leadership (R. F. Rodgers), 3 August 1987 through 31 May 1988. (Project 766315 - Continuation)

\$10,000.00 - American Cancer Society, Ohio Division, Inc., Cleveland, Ohio, Molecular Lesion of 5q- Chromosome in Acute Non-lymphocytic Leukemia (ANLL) Patients, Department of Internal Medicine (I. M. Chiu), 1 July 1987 through 30 June 1988. (Project 766257 - New)

\$10,000.00 - Ohio Nursery Stock Marketing Program, Columbus, Ohio, Programming for Computer Access and Expansion of a Videodisc, "Woody Landscape Plants of the Temperate U.S.", to Aid Marketing Ohio's Woody Plants, Department of Horticulture - OARDC and Department of Horticulture (T. D. Sydnor), 1 September 1987 through 31 August 1988. (Project 766297 - New)

\$9,121.00 - Franklin University, Columbus, Ohio, Student Personnel in Higher Education, Department of Educational Policy and Leadership (R. F. Rodgers), 15 August 1987 through 15 May 1988. (Project 766314 - New)

\$8,822.00 - American Cancer Society, Ohio Division, Inc., Cleveland, Ohio, Analysis of Thymidylate Synthetase Enzyme and Gene Expression in a 5-fluorouracil Resistant Cell Line and Metastatic Colonic Tumor Specimens, Department of Internal Medicine (B. C. Behrens and T. D. Moore), 1 July 1987 through 30 June 1988. (Project 766290 - New)

\$7,500.00 - American Federation for Aging Research, Ohio Affiliate, Columbus, Ohio, N-Methyl-4-Phenyl-1,2,3,6-tetrahydropyridine Induced Lipofuscin Accumulation: A Novel Model for Studying Aging, Department of Pharmacology (M. H. Neff), 1 July 1987 through 30 June 1988. (Project 766279 - New)

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REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)

THE OHIO STATE UNIVERSITY RESEARCH FOUNDATION (contd)

Other Non-Federal Research Contracts/Grants (contd)

\$6,773.00 - Otterbein College, Westerville, Ohio, Student Personnel in Higher Education, Department of Educational Policy and Leadership (R. F. Rodgers), 17 August 1987 through 15 June 1988. (Project 766313 - Continuation)

\$4,825.00 - Detroit Edison, Newport, Michigan; Duke Power Company, Cornelius, North Carolina; South Carolina Electric and Gas Company, South Carolina; Virginia Power, Richmond, Virginia; and Perry Nuclear Power Plant, Perry, Ohio, Consortium for the Development of Instructor Training Materials for the Electric Power Industry, The National Center for Research in Vocational Education (R. D. Ryan, Jr.), 1 November 1986 through 28 February 1987. (Project 765778 - Continuation)

\$3,800.00 - American Institute of Indian Studies, Minneapolis, Minnesota, Centre for Art and Archaeology of the American Institute of Indian Studies, Varanasi, Department of History of Art (S. L. Huntington), 1 January 1986 through 31 May 1987. (Project 765913 - Continuation)

\$3,437.00 - The Children's Hospital Foundation, Columbus, Ohio, CRYO-ROP Multi-Center Study, Department of Ophthalmology (D. L. Bremer and G. L. Rogers), 1 June 1987 through 31 May 1988. (Project 765638 - Continuation)

\$2,500.00 - Nebraska Department of Education, Lincoln Nebraska, National Consortium of State Career Guidance Supervisors, The National Center for Research in Vocational Education (R. D. Ryan, Jr.), 1 July 1987 through 30 June 1988. (Project 766331 - New)

\$708.00 - Cancer Therapy and Research Foundation of South Texas, San Antonio, Texas, Multidisciplinary Participation in the Cancer Activities of the Southwest Oncology Group, Department of Internal Medicine (S. P. Balcerzak), 1 February 1985 through 30 June 1988. (Project 765208 - Continuation)

TOTAL - OTHER NON-FEDERAL AWARDS

\$ 352,450.00

ENGINEERING EXPERIMENT STATION

State Sponsored Research and Development

\$62,500.00 - The Ohio Department of Transportation, Columbus, OH, "Continued Operation of the Technology Transfer Center under the Rural Technical Assistance Program," Department of Civil Engineering, 1 July 1987 through 31 December 1987. (529736)

Industrial and Other Sponsored Research and Development

\$63,392.00 - Edison Welding Institute, Columbus, OH, "Remote Sensor Development," Department of Welding Engineering, 1 July 1987 through 30 June 1988. (529279)

\$60,000.00 - from various industry for membership in the Compact Range Consortium, Department of Electrical Engineering. (312884)

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REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)

ENGINEERING EXPERIMENT STATION (contd)

Industrial and Other Sponsored Research and Development (contd)

\$60,000.00 - Digital Equipment Corporation, Hudson, MA, "Research and Development on the Generic Task Toolset for Building Knowledge Based Systems," Department of Computer and Information Science, 1 July 1987 through 30 June 1988. (529733)

\$55,000.00 - Edison Welding Institute, Columbus, OH, "Real Time Radiography," Department of Welding Engineering, 1 July 1987 through 30 June 1988. (529281)

\$44,362.00 - Edison Welding Institute, Columbus, OH, "Off Line Vision Programming," Department of Welding Engineering, 1 July 1987 through 30 June 1988. (529290)

\$42,301.00 - Edison Welding Institute, Columbus, OH, "Arc Sensing of Pool Oscillation," Department of Welding Engineering, 1 July 1987 through 30 June 1988. (529292)

\$41,923.00 - Westvaco Corporation, Covington, VA, "Development of a Diagnostic System for the Wartsila Roll Wrapper," Department of Chemical Engineering, 1 July 1987 through 30 June 1988. (312429)

\$40,851.00 - Edison Welding Institute, Columbus, OH, "Coaxial Vision Sensor Development," Department of Welding Engineering, 1 July 1987 through 30 June 1988. (529291)

\$40,000.00 - Edison Welding Institute, Columbus, OH, "Stress Intensity Factors in Tubular Joints Using Finite Element Method," Department of Welding Engineering, 1 July 1987 through 30 June 1988. (529284)

\$35,789.00 - from 15 sponsors of 22 development projects under the direction of three departments/research areas of the College of Engineering.

\$35,134.00 - Edison Welding Institute, Columbus, OH, "Laser Cutting," Department of Welding Engineering, 1 July 1987 through 30 June 1988. (529288)

\$35,000.00 - Edison Welding Institute, Columbus, OH, "Fatigue of Laser Weldments," Department of Welding Engineering, 1 July 1987 through 30 June 1988. (529283)

\$33,050.00 - General Electric Company, Cincinnati, OH, "Laser Welding of Advanced Titanium Alloys," Department of Welding Engineering, 1 July 1987 through 30 November 1987. (312425)

\$25,000.00 - Edison Welding Institute, Columbus, OH, "Non-Destructive Evaluation of Solid State Welds," Department of Welding Engineering, 1 July 1987 through 30 June 1988. (529280)

\$20,000.00 - Edison Welding Institute, Columbus, OH, "Model of Thermal Processes," Department of Welding Engineering, 1 July 1987 through 30 June 1988. (529293)

October 1 and 2, 1987 meeting, Board of Trustees

REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)

ENGINEERING EXPERIMENT STATION (contd)

Industrial and Other Sponsored Research and Development (contd)

\$18,000.00 - General Electric, Cincinnati, OH, "Fabrication and Testing of Specific Configurations of a Simulator of the Unducted Fan Engine, GE36," Department of Aeronautical and Astronautical Engineering, 15 December 1986 through 31 August 1987. (312897, Ext. 1)

\$17,103.00 - EPRI, Palo Alto, CA, "Design of Power Line Magnetic Field Measurements - an Experimental Program," Department of Electrical Engineering, 1 July 1987 through 31 August 1987. (529734)

\$15,000.00 - Edison Welding Institute, Columbus, OH, "Non-Destructive Evaluation of Spot Welds," Department of Welding Engineering, 1 July 1987 through 30 June 1988. (529282)

\$13,936.00 - South Florida Water Management District, West Palm Beach, FL, "Use of Remotely Sensed Imagery to Monitor Lake Okeechobee Water Quality," Department of Landscape Architecture, 1 June 1987 through 15 October 1987. (312430)

\$7,000.00 - from various industry for membership in the Gear Research Laboratory under the direction of the Department of Mechanical Engineering. (529735)

\$2,000.00 - from various industry for membership in the Engineering Research Center for Net Shape Manufacturing, Engineering Experiment Station. (529200)

TOTAL - INDUSTRIAL AND OTHER SPONSORED RESEARCH \$ 704,841.00

THE OHIO STATE UNIVERSITY DEVELOPMENT FUND

Establishment of Named Funds

The Antoinette Lowry Barr Scholarship Fund

The Antoinette Lowry Barr Scholarship Fund was established October 2, 1987, by the Board of Trustees of The Ohio State University through a bequest to The Ohio State University Development Fund from Antoinette Lowry Barr (M.A. Education '51).

All gifts are to be invested in the University's Permanent Endowment Fund, under the rules and regulations adopted by the Board of Trustees of The Ohio State University, with the right to invest and reinvest as occasion dictates.

The annual income shall be used to provide one or more scholarships to graduate students in education. The selection is to be made by the College of Education scholarship/fellowship committee in consultation with the University Committee on Student Financial Aid.

It is the desire of the donors that this fund should benefit the University in perpetuity. If the need for this fund should cease to exist or so diminish as to provide unused income, then another use shall

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REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)

THE OHIO STATE UNIVERSITY DEVELOPMENT FUND (contd)

Establishment of Named Funds (contd)

The Antoinette Lowry Barr Scholarship Fund (contd)

be designated by the Board of Trustees in consultation with the person then responsible for study of education in order to carry out the desire of the donors.

The Landscape Architecture Lecture Fund

The Landscape Architecture Lecture Fund was established October 2, 1987, by the Board of Trustees of The Ohio State University with gifts to The Ohio State University Development Fund from alumni, friends, and faculty of the Department of Landscape Architecture.

All gifts are to be invested in the University's Permanent Endowment Fund, under the rules and regulations adopted by the Board of Trustees of The Ohio State University, with the right to invest and reinvest as occasion dictates.

The annual income shall be used to fund lectures on landscape architecture and to disseminate information about the lectures and publications thereof. Expenditures will be made under the direction of the Chairperson of the Department of Landscape Architecture or an assigned committee.

It is the desire of the donors that this fund should benefit the University in perpetuity. If the need for this fund should cease to exist or so diminish as to provide unused income, then another use shall be designated by the Board of Trustees, in consultation with the appropriate department chairperson or program administrative officer responsible for landscape architecture education, in order to carry out the desire of the donors.

The Rodney F. Plimpton, Jr., Memorial Scholarship Fund in Animal/Meat Science

The Rodney F. Plimpton, Jr., Memorial Scholarship Fund in Animal/Meat Science was established October 2, 1987, by the Board of Trustees of The Ohio State University with gifts to The Ohio State University Development Fund from the family and friends of the late Dr. Rodney F. Plimpton (M.S. Meat Science '61, Ph.D. Meat Science '65), who died on May 16, 1987, his fiftieth birthday. He spent his entire career at Ohio State, devoting his time and tremendous energy to enabling his students to become the best that they could be. Students responded to his enthusiasm by nominating him for the Alumni Distinguished Teaching Award every year. He was the first Ohio State professor to be named an Alumni Distinguished Teacher twice, in 1968 and 1976. He was also named Distinguished Meats Teacher by the American Meat Science Association in 1978. Dr. Plimpton developed and taught Animal Science 100, an introductory course, which served to whet the curiosity of freshman students and inspired many of those students to declare a major in Animal/Meat Science.

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REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)

THE OHIO STATE UNIVERSITY DEVELOPMENT FUND (contd)

Establishment of Named Funds (contd)

The Rodney F. Plimpton, Jr., Memorial
Scholarship Fund in Animal/Meat Science (contd)

All gifts are to be invested in the University's Permanent Endowment Fund, under the rules and regulations adopted by the Board of Trustees of The Ohio State University, with the right to invest and reinvest as occasion dictates.

The annual income shall be used to provide scholarships for students with intended careers in the Meat Science area of study within the College of Agriculture. Other selection criteria shall include:

- * evidence of above average scholarship.
- * participation in student activities with leadership potential.
- * completion of Animal Science 100 and/or Animal Science 200, or such appropriate courses as may be successor to those presently available courses.

A committee to select the recipient(s) each year shall consist of the following persons:

- * The chairman of the appropriate scholarship committee designated to select Meat Science Scholarship recipients, who shall serve as chairman of the selection committee.
- * Instructor(s) of Animal Science 100, 200, and 452/453, or such courses as may supplant those courses.
- * A Meat Science graduate teaching associate.
- * The preceding year's Plimpton Scholarship recipient(s).
- * A member of the Plimpton family, insofar as family members desire to be involved.

It is the desire of the donors that this fund should benefit the University in perpetuity. If the need for this fund should cease to exist or so diminish as to provide unused income, then another use shall be designated by the Board of Trustees, with preference being given to the funding of Honors research projects by undergraduate students in Animal Science/Meat Science or closely related food/nutrition areas of study, in order to carry out the desire of the donors.

The Florence Levy Miller and I. George Miller
Memorial Scholarship Fund

The Florence Levy Miller and I. George Miller Memorial Scholarship Fund was established October 2, 1987, by the Board of Trustees of The Ohio State University with gifts to The Ohio State University Development Fund from the family and friends of Florence Levy Miller and I. George Miller.

All gifts are to be invested in the University's Permanent Endowment Fund, under the rules and regulations adopted by the Board of Trustees of The Ohio State University, with the right to invest and reinvest as occasion dictates.

October 1 and 2, 1987 meeting, Board of Trustees

REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)

THE OHIO STATE UNIVERSITY DEVELOPMENT FUND (contd)

Establishment of Named Funds (contd)

**The Florence Levy Miller and I. George Miller
Memorial Scholarship Fund (contd)**

The annual income shall be used to provide one or more scholarships for undergraduate or graduate students who have demonstrated academic ability and as a secondary consideration, financial need, with priority given to students in the Department of Family Relations and Human Development. The selection of the recipient is to be made upon the recommendation of the University Committee on Student Financial Aid in consultation with the Dean of the College of Home Economics.

It is the desire of the donors that this fund should benefit the University in perpetuity. If the need for this fund should cease to exist or so diminish as to provide unused income, then another use shall be designated by the Board of Trustees, in consultation with the Dean of the College of Home Economics, in order to carry out the desire of the donors.

The Norman R. Sleight Newark Campus Scholarship Fund

The Norman R. Sleight Newark Campus Scholarship Fund was established October 2, 1987, by the Board of Trustees of The Ohio State University with gifts to The Ohio State University Development Fund from Norman R. Sleight of Newark, Ohio.

All gifts are to be invested in the University's Permanent Endowment Fund, under the rules and regulations adopted by the Board of Trustees of The Ohio State University, with the right to invest and reinvest as occasion dictates.

The annual income shall be used to provide scholarship support for one or more students attending The Ohio State University, Newark Campus. The selection of the recipient(s) will be made by the University Committee on Student Financial Aid upon recommendations of the Dean of The Ohio State University, Newark Campus.

It is the desire of the donors that this fund should benefit the University in perpetuity. If the need for this fund should cease to exist or so diminish as to provide unused income, then another use shall be designated by the Board of Trustees, with preference being given to recommendations from the Dean of The Ohio State University, Newark Campus, in order to carry out the desire of the donors.

Change in Description of Named Funds

**The Nicholas D. and Evangeline Jonson
Memorial Scholarship Fund**

The Nicholas D. and Evangeline Jonson Memorial Scholarship Fund was established June 7, 1985, by the Board of Trustees of The Ohio State

October 1 and 2, 1987 meeting, Board of Trustees

REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)

THE OHIO STATE UNIVERSITY DEVELOPMENT FUND (contd)

Change in Description of Named Funds (contd)

**The Nicholas D. and Evangeline Jonson
Memorial Scholarship Fund (contd)**

University with gifts to The Ohio State University Development Fund from various persons making memorial gifts at the death of Evangeline Jonson, along with a major gift from George N. Jonson of Hamilton, Ohio. The description was changed October 2, 1987.

All gifts are to be invested in the University's Permanent Endowment Fund, under the rules and regulations adopted by the Board of Trustees of The Ohio State University, with the right to invest and reinvest as occasion dictates.

The annual income shall be used to fund scholarship(s) in the amount of \$500.00 for a graduating senior(s) from Hamilton High School in Hamilton, Ohio, who has expressed an interest in studying the humanities at The Ohio State University, Columbus, Ohio. If the income is sufficient, additional scholarship(s) in the amount of \$500.00 may be awarded to second, third, or fourth year students who have an interest in or are studying the humanities at The Ohio State University and have maintained a grade point average of 3.0 or higher. Selection of the recipient(s) shall be made by the University Committee on Student Financial Aid upon the recommendation of a committee from Hamilton High School, appointed by the principal of said high school, in consultation with George N. Jonson of Hamilton, Ohio, or in the event of his demise or inability to serve, by a person chosen by him or his heirs. Should a recipient(s) decide not to attend The Ohio State University, then the amount awarded to the scholarship recipient will be returned to the fund's principal.

The criteria to be considered in selecting the recipient(s) shall be as follows: The recipient(s) shall (1) have a 3 point average or higher; (2) have demonstrated an interest in the humanities; (3) have demonstrated good citizenship and leadership at Hamilton High School; (4) must be enrolled or plan to enroll at The Ohio State University for the entire school year. An additional consideration shall be the activities engaged in at Hamilton High School. Eligibility shall not be limited to financial need.

The scholarship(s) shall be for one year until the scholarship fund has grown to the level that the recipient(s) can continue on the scholarship past the first year. Recipient(s) may apply for renewal of the scholarship through the office of Student Financial Aid at The Ohio State University.

Should the need for this fund cease to exist or so diminish as to provide unused income, then the income may be used for any purpose whatsoever as determined by the Board of Trustees, with preference being given to recommendations meeting the educational goals of the College of Humanities at The Ohio State University.

October 1 and 2, 1987 meeting, Board of Trustees

REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)

THE OHIO STATE UNIVERSITY DEVELOPMENT FUND (contd)

Change in Description of Named Funds (contd)

Kappa Phi Kappa Fund

The Kappa Phi Kappa Fund was established September 11, 1969, by the Board of Trustees of The Ohio State University with gifts to The Ohio State University Development Fund from the Alpha Eta Association. The description was changed October 2, 1987.

All gifts are to be invested in the University's Permanent Endowment Fund, under the rules and regulations adopted by the Board of Trustees of The Ohio State University, with the right to invest and reinvest as occasion dictates.

The annual income shall be placed in a Project Account and used to promote the effective education of teachers under the direction of the Dean of the College of Education. This is to be accomplished through Kappa Phi Kappa scholarships and providing operational funds to the Alpha Eta Association. Funds may be used for other activities in support of teacher education, if in the Dean's judgment the cause of teacher education would be better served by the diversion of funds from the scholarship program. Priority is to be given to projects in support of undergraduate teacher education.

Unless the Dean each year otherwise decides and instructs the University, the University shall at the end of each fiscal year of the University transfer to and incorporate into the Fund any excess in the Project Account over and above one times the share for the full fiscal year then ending.

Should the need for this fund cease to exist or so diminish as to provide unused income, this income may be used for any purpose whatsoever within the guidelines as contained in the June 10, 1987, Agreement between the Alpha Eta Association and the University, which supersedes the agreements of July 1, 1969, and June 11, 1985.

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**REPORT OF AWARD OF CONTRACTS AND
ESTABLISHMENT OF CONTINGENCY FUNDS**

Resolution No. 88-37

Synopsis: Contracts have been awarded for the projects listed below to the lowest and best bidders in accordance with University procedures.

WHEREAS resolutions adopted by the Board of Trustees at previous meetings authorized the President and/or Vice President for Business and Administration to sign the plans and specifications and, in accordance with established University procedures, to request bids and, if satisfactory bids were received, to recommend to the Department of Administrative Services, Division of Public Works, the award of contracts for the Health Sciences Center Medical/Logistical Services (INFILL), Bee

October 1 and 2, 1987 meeting, Board of Trustees

**REPORT OF AWARD OF CONTRACTS AND
ESTABLISHMENT OF CONTINGENCY FUNDS (contd)**

Laboratory Replacement, Energy Modifications - Building Retrofit, and Energy Modifications to Buildings Phase VII projects; and

WHEREAS resolutions adopted by the Board of Trustees at previous meetings authorized the President and/or Vice President for Business and Administration to sign the plans and specifications and, in accordance with established University procedures, to request bids and, if satisfactory bids were received, to recommend the award of contracts for the Doan Hall - CAP Kold System and Doan Hall - CRI Materials Handling Staging Area, and Marion Regional Campus - Morrill Hall Water Line projects, as follows:

**HEALTH SCIENCES CENTER
MEDICAL/LOGISTICAL SERVICES (INFILL)**

Description: This project provides for the construction of a two-story, above grade addition to Doan Hall providing space for medical records, a central air conditioning room, new truck docks, and space for maintenance shops, housekeeping, stores and offices. Construction is scheduled to begin November 1987, and be completed November 1989.

General Contract

Date Received:	August 18, 1987
No. of Bids:	8
Low Bid:	\$2,908,000.00*
High Bid:	\$3,390,675.00*
Estimate of Cost:	\$3,404,002.00*
Awarded to:	Sherman R. Smoot Co., Columbus, OH

Plumbing Contract

Date Received:	August 18, 1987
No. of Bids:	5
Low Bid:	\$ 206,000.00+
High Bid:	\$ 239,900.00
Estimate of Cost:	\$ 191,082.00
Awarded to:	Farber Corp., Columbus, OH

*Recommended alternates reflected in these figures.

+Plumbing Contract is in excess of filed estimate of cost; however, the total price of all contracts is within 10% of the total estimate of cost and is recommended for award as provided by Section 153.12 of the Revised Code.

October 1 and 2, 1987 meeting, Board of Trustees

**REPORT OF AWARD OF CONTRACTS AND
ESTABLISHMENT OF CONTINGENCY FUNDS (contd)**

**HEALTH SCIENCES CENTER
MEDICAL/LOGISTICAL SERVICES (INFILL) (contd)**

HVAC Contract

Date Received:	August 18, 1987
No. of Bids:	8
Low Bid:	\$ 527,200.00*
High Bid:	\$ 701,700.00*
Estimate of Cost:	\$ 534,734.00*
Awarded to:	Julian Speer Co., Columbus, OH

Fire Protection Contract

Date Received:	August 18, 1987
No. of Bids:	6
Low Bid:	\$ 127,674.00*
High Bid:	\$ 237,688.00*
Estimate of Cost:	\$ 133,236.00*
Awarded to:	Central Fire Protection Co., Springfield, OH

Electric Contract

Date Received:	August 18, 1987
No. of Bids:	8
Low Bid:	\$ 502,700.00*
High Bid:	\$ 760,640.00*
Estimate of Cost:	\$ 608,208.00*
Awarded to:	Goodin Electric Inc., Newark, OH

Total All Contracts: \$4,271,574.00*

Total Contingency Allowance: \$ 529,541.57 (which is 12% of construction costs)

**Special Consultants and
Additional Services:** \$ 202,042.00

*Recommended alternates reflected in these figures.

October 1 and 2, 1987 meeting, Board of Trustees

**REPORT OF AWARD OF CONTRACTS AND
ESTABLISHMENT OF CONTINGENCY FUNDS (contd)**

**HEALTH SCIENCES CENTER
MEDICAL/LOGISTICAL SERVICES (INFILL) (contd)**

Total Project Cost: \$5,950,000.00*

Funding: University Hospitals Funds

*Recommended alternates reflected in these figures.

BEE LABORATORY REPLACEMENT

Description: This project provides for the construction of a new building just north of the Dairy Science Complex off of Lane Avenue which will provide research, office and storage space to replace the present wood frame structure built in 1912. Construction is scheduled to begin December 1987, and be completed within one year.

General Contract

Date Received:	August 25, 1987
No. of Bids:	4
Low Bid:	\$ 204,293.00*+
High Bid:	\$ 238,616.42*
Estimate of Cost:	\$ 196,970.00*
Awarded to:	Robert H. Johns Co., Columbus, OH

Plumbing Contract

Date Received:	July 23, 1987
No. of Bids:	2
Low Bid:	\$ 53,335.00*
High Bid:	\$ 59,000.00*
Estimate of Cost:	\$ 54,000.00*
Awarded to:	Holdridge Mechanical, New Albany, OH

*Recommended alternates reflected in these figures.

+General, Plumbing and HVAC Contracts are in excess of filed estimate of cost; however, the total price of all contracts is within 10% of the total estimate of cost and is recommended for award as provided by Section 153.12 of the Revised Code.

October 1 and 2, 1987 meeting, Board of Trustees

**REPORT OF AWARD OF CONTRACTS AND
ESTABLISHMENT OF CONTINGENCY FUNDS (contd)**

BEE LABORATORY REPLACEMENT (contd)

HVAC Contract

Date Received:	July 23, 1987
No. of Bids:	1
Low Bid:	\$ 35,740.00**
Estimate of Cost:	\$ 31,415.00*
Awarded to:	C. R. Legner Co., Columbus, OH

Electric Contract

Date Received:	July 23, 1987
No. of Bids:	8
Low Bid:	\$ 61,910.00*
High Bid:	\$ 90,276.00*
Estimate of Cost:	\$ 66,372.00*
Awarded to:	Buckeye Electric, Dayton, OH
Total All Contracts:	\$ 355,278.00*
Total Contingency Allowance:	\$ 17,763.90 (which is 5% of construction costs)
Total Project Cost:	\$ 459,266.00*
Funding:	H.B. 552, S.B. 381, S.B. 348 and University Funds

*Recommended alternates reflected in these figures.

+General, Plumbing and HVAC Contracts are in excess of filed estimate of cost; however, the total price of all contracts is within 10% of the total estimate of cost and is recommended for award as provided by Section 153.12 of the Revised Code.

ENERGY MODIFICATIONS - BUILDING RETROFIT

Description: Energy modifications to various buildings. An additional chiller will be installed at the Allied Medical Center Building. The Bevis and Pressey Halls portion of this project will provide for a cross connection of chilled water piping. Due to the critical nature of the research being performed in these two buildings, this cross connection will provide alternate sources of cooling which will minimize any interruption to the system. Construction is scheduled to begin November 1987, and be completed within one year.

October 1 and 2, 1987 meeting, Board of Trustees

**REPORT OF AWARD OF CONTRACTS AND
ESTABLISHMENT OF CONTINGENCY FUNDS (contd)**

ENERGY MODIFICATIONS - BUILDING RETROFIT (contd)

Plumbing Contract

Date Received:	August 25, 1987
No. of Bids:	3
Low Bid:	\$ 11,590.00
High Bid:	\$ 25,000.00
Estimate of Cost:	\$ 12,000.00
Awarded to:	Holdridge Mechanical, New Albany, OH

HVAC Contract

Date Received:	August 25, 1987
No. of Bids:	3
Low Bid:	\$ 293,400.00*
High Bid:	\$ 314,784.00*
Estimate of Cost:	\$ 395,000.00*
Awarded to:	Farber Corp., Columbus, OH

Electric Contract

Date Received:	August 25, 1987
No. of Bids:	2
Low Bid:	\$ 18,952.00*
High Bid:	\$ 21,789.00*
Estimate of Cost:	\$ 26,000.00*
Awarded to:	Hi-Tech Electric, Inc., Columbus, OH

Total All Contracts: \$ 323,942.00*

Total Contingency Allowance: \$ 25,933.72 (which is 8% of construction costs)

Total Project Cost: \$ 415,000.00

Funding: H.B. 798 and S.B. 348

*Recommended alternates reflected in these figures.

October 1 and 2, 1987 meeting, Board of Trustees

**REPORT OF AWARD OF CONTRACTS AND
ESTABLISHMENT OF CONTINGENCY FUNDS (contd)**

**DOAN HALL - CAP KOLD SYSTEM AND
DOAN HALL - CRI MATERIALS HANDLING STAGING AREA**

Description: The Cap Kold System portion provides for the renovation of Rooms 075A and 175A to accommodate the installation of a cook/chill food production system, reducing exposure to possible contamination. The CRI Materials Handling Staging Area portion provides for renovation on the ground floor to provide clean and soiled holding areas to support the material handling system for the Cancer Research Institute. Construction is scheduled to begin October 1987, and be completed within two hundred forty days.

General Contract

Date Received:	August 11, 1987
No. of Bids:	3
Low Bid:	\$ 89,300.00 ⁺
High Bid:	\$133,800.00
Estimate of Cost:	\$ 78,000.00
Awarded to:	Functional Development, Inc., Dublin, OH

Mechanical Contract

Date Received:	August 11, 1987
No. of Bids:	1
Low Bid:	\$106,000.00
Estimate of Cost:	\$112,000.00
Awarded to:	Farber Corp., Columbus, OH

Electric Contract

Date Received:	August 11, 1987
No. of Bids:	5
Low Bid:	\$ 25,056.00
High Bid:	\$ 39,810.00
Estimate of Cost:	\$ 31,000.00
Awarded to:	Reco Electric Inc., Gahanna, OH

⁺General Contract is in excess of filed estimate of cost; however, the total price of all contracts is within 10% of the total estimate of cost and is recommended for award as provided by Section 153.12 of the Revised Code.

October 1 and 2, 1987 meeting, Board of Trustees

**REPORT OF AWARD OF CONTRACTS AND
ESTABLISHMENT OF CONTINGENCY FUNDS (contd)**

**DOAN HALL - CAP KOLD SYSTEM AND
DOAN HALL - CRI MATERIALS HANDLING STAGING AREA (contd)**

Total All Contracts:	\$220,356.00
Total Contingency Allowance:	\$ 35,296.42 (which is 16% of construction costs)
Total Project Cost:	\$285,020.00
Funding:	University Hospitals Funds

ENERGY MODIFICATIONS TO BUILDINGS PHASE VII

Description: This energy modification project will provide for the installation of a new electric centrifugal unit for Bevis Hall. The Mount and Pressey Halls portion of this project will provide for a cross connection of chilled water piping. Due to the critical nature of the research being performed in these two buildings, this cross connection will provide alternate sources of cooling, which will minimize any interruption to the service. Construction is scheduled to begin in November 1987, and be completed within one year.

HVAC Contract

Date Received:	August 19, 1987
No. of Bids:	5
Low Bid:	\$ 187,000.00
High Bid:	\$ 222,800.00
Estimate of Cost:	\$ 230,000.00
Awarded to:	J. A. Croson, Columbus, OH

Electric Contract

Date Received:	August 19, 1987
No. of Bids:	2
Low Bid:	\$ 14,596.00
High Bid:	\$ 27,900.00
Estimate of Cost:	\$ 30,000.00
Awarded to:	Frush & Homan, Columbus, OH

Total All Contracts:	\$ 201,596.00
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October 1 and 2, 1987 meeting, Board of Trustees

**REPORT OF AWARD OF CONTRACTS AND
ESTABLISHMENT OF CONTINGENCY FUNDS (contd)**

ENERGY MODIFICATIONS TO BUILDINGS PHASE VII (contd)

Total Contingency Allowance: \$ 24,276.20 (which is 12% of construction costs)
Total Project Cost: \$ 265,846.92
Funding: University Funds

**MARION REGIONAL CAMPUS - MORRILL HALL
WATER LINE**

Description: This project provides for pipe repair around the meters, removal of galvanized main, installation of copper main, fittings, hangers and reinsulating of the new main. Construction is scheduled to begin November 1987, and be completed within thirty days.

Plumbing Contract

Date Received: August 27, 1987
No. of Bids: 3
Low Bid: \$ 31,681.00
High Bid: \$ 38,115.00
Estimate of Cost: \$ 40,200.00
Awarded to: C. R. Legner Co., Columbus, OH
Total All Contracts: \$ 31,681.00
Total Contingency Allowance: \$ 3,802.00 (which is 12% of construction costs)
Total Project Cost: \$ 37,483.00
Funding: H.B. 870 U & R

NOW THEREFORE

BE IT RESOLVED, That pursuant to the actions previously authorized by the Board, the award of contracts and the establishment of project funds and contingency funds for the projects listed above are hereby approved.

Upon motion of Mr. Kessler, seconded by Mrs. Bowser, the Board of Trustees adopted the foregoing resolution by unanimous roll call vote.

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October 1 and 2, 1987 meeting, Board of Trustees

**SALE OF REAL PROPERTY
1217-1225 WEST BROAD STREET
COLUMBUS, OHIO**

Resolution No. 88-38

Synopsis: Sale of property located at 1217-1225 West Broad Street in Columbus, Ohio, is proposed.

WHEREAS in 1977 the Board of Trustees acquired the property located at 1217-1225 West Broad Street by gift from Helen G. Feibel and Joan M. Wears; and

WHEREAS under the terms of this gift, the property is to be sold and the net proceeds from the sale are to be used to support the John W. Galbreath Chair in Real Estate; and

WHEREAS Harry and Mona Bryson of Orient, Ohio, have offered to purchase the property for \$35,000.00; and

WHEREAS it is the desire of this Board to accept this offer and to sell all of the Board's right, title, and interest in and to this property:

NOW THEREFORE

BE IT RESOLVED, That the President and/or Vice President for Business and Administration be authorized, in the name of the Board of Trustees of The Ohio State University to sell all of the University's right, title, and interest in and to the property at 1217-1225 West Broad Street to Harry and Mona Bryson for \$35,000.00, with the net proceeds from such sale being used to support the John W. Galbreath Chair in Real Estate.

Upon motion of Mr. Wolf, seconded by Mr. Barone, the Board of Trustees adopted the foregoing resolution by unanimous roll call vote.

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**EASEMENT
CITY OF COLUMBUS**

Resolution No. 88-39

Synopsis: Authorization to grant an easement to the city of Columbus for installation of a storm sewer is requested.

WHEREAS the City of Columbus has requested a 15-year easement consisting of a strip of land approximately 50 feet in width and 1400 feet in length for a temporary construction easement and a strip of land 50 feet in width and 1400 feet in length for a permanent easement in an area northeast of the Lab Animal Center; and

WHEREAS Arshot Investment Company will install the storm sewer and agrees to compensate the University with a lump sum fee of \$20,651.00 based on fair market value of the land; and

October 1 and 2, 1987 meeting, Board of Trustees

**EASEMENT
CITY OF COLUMBUS (contd)**

WHEREAS the storm sewer will serve private properties near the University; and

WHEREAS the appropriate University offices have recommended that this easement be granted:

NOW THEREFORE

BE IT RESOLVED, That the President and/or Vice President for Business and Administration, be authorized to request the Deputy Director of Public Works of the Department of Administrative Services, pursuant to his statutory duties, to act on behalf of the University in developing the necessary legal instrument to provide for this easement.

Upon motion of Mr. Kessler, seconded by Mr. Teaford, the Board of Trustees adopted the foregoing resolution by unanimous roll call vote.

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President Jennings made the following statement:

Mr. Chairman, there has been an awful lot of talk about the potential of The Ohio State University joining with the State of Ohio to construct a computer center on our property close to North Star Road. Could you let us know, Dick, where we stand on that particular issue?

Mr. Jackson:

Thank you, Mr. President and Members of the Board, I would be glad to make a few short comments about that project. The State came to us some time ago and talked about the possibility of building a State computer center with approximately 450,000 square feet of space in it. There has been a State budget provided for this in the area of about \$50 million. We believe that it is a proper component to place in our Research Park and have suggested an area which is just south of Lane Avenue and to the east of North Star. But our recommendation is that we would have access to that facility off of Lane Avenue onto Carmack and then access from the east. We think that that is one of the major concerns expressed by the Upper Arlington community.

There was a meeting held on September 16, in which two representatives of the University attended, as well as Carol Olshovsky, who is the State Architect and who is responsible for this project, and responsible for the communication and inter-action for the State. Subsequent to that meeting, the City Manager of Upper Arlington had written to the University and has suggested that a group of five residents serve as a committee that would interact with the State of Ohio, as well as the University in discussing this project. We think that is a very reasonable, logical step to take, and we look forward to working with the State, as well as with the Upper Arlington residence in trying to communicate what this project is about and to answer the questions and address the issues which are presented. We

October 1 and 2, 1987 meeting, Board of Trustees

Mr. Jackson: (contd)

think this is a logical way to go, and we are very optimistic about the resolution of the issues at hand. We will get back to the Board, hopefully before too long to talk about a negotiated lease.

President Jennings:

Talking about a negotiated lease of land, which would be the only direct Board action that would be necessary, am I right on that?

Mr. Jackson:

That is correct. We would certainly be involved in that lease regarding the requirements that we think are important in terms of architectural review -- the design of the building, the exterior maintenance, the things that are important to them, not only the University, but we think that are important to the community.

President Jennings:

Thank you.

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REPORT - UNIVERSITY'S INVESTMENT PORTFOLIO

Resolution No. 88-40

RESOLVED, That the report on the University's Investment Portfolio, dated September 18, 1987, as submitted to the Fiscal Affairs Committee of the Board of Trustees, be received and filed with the official records of the Board.

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Thereupon the Board adjourned to meet Thursday, November 5, 1987, at The Ohio State University Fawcett Center for Tomorrow, Columbus, Ohio, at 6:30 p.m.

Attest:

Madison H. Scott
Secretary

Edmund C. Redman
Chairman

THE OHIO STATE UNIVERSITY
OFFICIAL PROCEEDINGS OF THE
ONE THOUSAND TWO HUNDRED AND THIRTY-FIFTH MEETING
OF THE BOARD OF TRUSTEES

Columbus, Ohio, November 5 and 6, 1987

The Board of Trustees met at its regular monthly meeting on Thursday, November 5, and Friday, November 6, 1987, at The Ohio State University Fawcett Center for Tomorrow, Columbus, Ohio, pursuant to adjournment.

* * *
Minutes of the last meeting were approved.
* * *

November 5 and 6, 1987 meeting, Board of Trustees

The Chairman, Mr. Redman, called the meeting of the Board of Trustees to order on November 5, 1987, at 6:30 p.m. He requested the Secretary to call the roll. The meeting recessed into Executive Session for the purpose of considering legal issues and personnel-related matters.

Present: Edmund C. Redman, Chairman, John W. Berry, Shirley D. Bowser, Hamilton J. Teaford, Deborah E. Casto, John W. Kessler, and Milton A. Wolf.

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Mr. Redman reconvened the meeting on November 6, 1987, at 10:25 a.m.

Present: Edmund C. Redman, Chairman, Shirley D. Bowser, Hamilton J. Teaford, Deborah E. Casto, John W. Kessler, and Milton A. Wolf.

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Mr. Redman:

I'd like to have the committee reports, beginning with the Development Fund Board of Directors. Mr. Kessler isn't here so we'll skip to the -- let's note that Mr. Barone was to report on the Research Foundation, but I understand that they have had no meetings, thus there would be no report even if he were here.

President Jennings:

Dr. Hollander is here, he could add something to the Research Foundation.

Mr. Redman:

Very good.

Dr. Hollander:

I think it is Tab 5 of your notebook that contains the list of grants and contracts from the Research Foundation for the month of September. In that list there are 95 awards which will provide a gross income to the University of \$9.6 million. Let me just remark that for the first three months of this fiscal year, July 1 to September 30, we have had 348 awards with a gross income of \$32.9 million. This can be compared with the first three months of last fiscal year in which we had 279 awards for a gross income of \$19.1 million. In this period there is represented a 72% increase in funding for the three month period. Of course, while that income increase is welcome, much of it has to be discounted as being attributed to the timing of several large awards and to the slowness of processing awards by several agencies during the last fiscal year. So these two factors have artificially increased the apparent performance for the first part of this fiscal year and we don't expect that such a large percentage increase in funding will carry through the year, although we do hope to maintain the substantial increase this year, as last year.

November 5 and 6, 1987 meeting, Board of Trustees

Mr. Teaforde:

We see the difference in the academic approach as opposed to the fundraising approach. Our fundraiser plays up or tells us the reasons it went down and he tells us it's too high.

Dr. Hollander:

I would like to say our expectations for the entire year shows that there will be a 72% increase over last year -- as much as that would be welcome. A few highlights of the awards are: \$1.8 million award from the National Association of Regulatory Utility Commissioners to Professor Douglas Jones and his associates for the continuation of the National Regulatory Research Institute; a \$582,000 award from the National Aeronautics and Space Administration to Professor John Bossler of the Center of Mapping and his associates in a number of colleges, as a continuation grant for the NASA Center for the commercial development of space.

Mr. Redman:

Jack, if I could interrupt you a moment -- backing up one item. Could you explain, just a trifle, about what they would propose to do in this research of utility regulations?

Dr. Hollander:

The NRRI, National Regulatory Research Institute, conducts research on all aspects of utility issues -- the regulations, power generation, a whole spectrum of activities and it is a long standing institute with the University. It is a very respected group. In fact, the only institute of its kind in the country. They are very prolific in their publication of studies of problems of all kinds --

Mr. Redman:

Do they deal with rates?

Dr. Hollander:

They deal with rates, regulations, power wheeling and --

Mr. Redman:

Return on investments?

Dr. Hollander:

All those kinds of problems. They have both technical and economic sides to their activities.

Mr. Redman:

Do they still go into the question on utilities -- one of the things that brought on some of the utilities problems, as I recall, would be their stepping up of the rate base every time

November 5 and 6, 1987 meeting, Board of Trustees

Mr. Redman: (contd)

they would set up a new utility and they would sell it from corporation A to corporation B. Corporation A would buy it for \$10 million and sell it to corporation B for \$20 million and step up the rate base to \$20 million, then they would charge the utility customers on that basis, and then they would move it up to \$50 million and charge on that basis. They finally put a stop to that. Are they still into those kinds of problems?

Dr. Hollander:

I'm sure they are. I'm sure if you look through the activities of the Institute you'd find reports on that kind of problem, as well as many others.

Mr. Redman:

The reason I was interested in it is that I have been on the other end of some of those trying to step up the rate base and I want to know if they are still looking over my shoulder!

President Jennings:

They sure are.

Mr. Redman:

Thank you, Dr. Hollander, I will be aware of that.

Dr. Hollander:

Finally, let me just mention a --

President Jennings:

I might just add, Jack, this Research Institute is also funded with funds provided by each State Regulatory Commission in proportion to their size.

Mr. Redman:

Like our Public Utilities Commission.

President Jennings:

Our PUCO sponsors this, but every state sponsors this. This is essentially voluntary, it is not required that the PUCO sponsor this, but they all have chosen to and that is the result of the academic respect that Doug Jones has.

Dr. Hollander:

Just one other highlight -- a major \$594,000 award from the Health Resources and Services Administration to Professors Lawrence Gabel and Michael Para of the College of Medicine to establish a center for the training of health professionals in dealing with the various aspects of the AIDS problem. It is a

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Dr. Hollander: (contd)

very important issue. We are one of a small number of institutions that they funded generously to participate in the training of professionals in this important area.

Well these are just a few of the large number of awards, but as you can see from your list there are a large number of smaller awards, each of which is a result of individual initiative by members of our faculty. Thank you.

Mr. Redman:

Is there anything else? Mrs. Bowser, the University Hospitals Board.

Mrs. Bowser:

Yes, sir. As you may remember, the Executive Committee meets on alternate months, so the Executive Committee met on Thursday, October 29, with all the appropriate persons there. Mr. Covert presented, and we approved, a new Hospital policy addressing the use within the institution of Physician Extenders and/or Allied Health Professionals who may not be Hospital employees. The intent of this policy is to ensure that all such individuals are properly credentialed and supervised, and that the patient care they provide meets the University, Hospitals, medical staff, and legal standards.

The year-to-date Hospitals admissions are 1.5% above budget. Clinical visits, emergency visits, and outpatient surgical patients are all exceeding budget for this year. September's net income was \$152,000; year-to-date net income is \$449,000.

We have already discussed the helicopter and it is in service. We played a big part in getting that started and as a Board member from outside the City of Columbus, it is tremendously important to the surrounding counties and areas to have an alternative means of getting here.

The strategic planning is continuing. The consulting firm has submitted a progress report regarding the development of the Strategic Plan for the medical complex. Members of the Hospitals Board plan to meet at Mr. Vorys's office in mid-November for a day retreat to review the consultants' recommendations and feedback provided by the Hospital's medical and administrative staffs. With input from the Hospitals Board, the final draft of the Strategic Plan will be reviewed by the Strategic Planning Task Force, appointed last year by President Jennings, and will ultimately be brought to you for consideration and support.

We are anticipating, in November, an accreditation team from the Joint Commission on Accreditation of Hospitals, which is known as JCAH. They will be conducting a site survey. The last survey occurred in November of 1984, and at that time we received a full three-year accreditation. We are reviewing with staff how those surveys and interviews will be held and mock

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Mrs. Bowser: (contd)

surveys are being done at the Hospitals at this time. That completes my report.

Mr. Redman:

I think it would be appropriate at this time, Mrs. Bowser, with your permission, to deal with several items at the Hospital which we have discussed from time to time. I would like to report to the Board, particularly with regard to the billing situation.

We discussed it at the last Board Meeting and you'll recall that Dr. Tzagournis invited me to attend the meeting of the committee dealing with the change in the billing systems, and I did that. I might add that in order to bring myself up-to-date prior to that meeting, I had a meeting that I called of people on the staff to advise me concerning their opinions, without regard to outside consultants or doctors who are involved, but for people that are going to do the billing -- that's the problem. We had that meeting and it was a good meeting. Dr. Senhauser attended that and he is the chairman of the committee on this subject. Then, I met with their committee, Dr. Senhauser, and the other doctors. During the course of that meeting we had a candid discussion of the concerns of the physicians, in which we must all be concerned. After all, without any physicians, we don't have any hospital. We want to be fair to them, as I explained -- I'm sure the Board feels the same way -- the Board has decided that this is the way to go, we adopted this resolution in June 1985, and that we didn't seem to be making much progress.

I made several suggestions: one, that I was dissatisfied with the report that the committee received from their outside consultants. And I won't bore you all with that, but I spent considerable time on that subject. I suggested that since it was an accounting problem, they should consult with a member or several, or all, of the Big 8 firms who have specialists in this area. I suggested that for a couple of reasons: one, it is a billing problem, it's not a medical problem. The consultants who advised the committee indicated that they wanted \$60,000 to tell us what we should write in the specifications before we hired anybody or they did any work. I thought that was out of reason and so expressed myself. In any event, Dr. Senhauser said that after that meeting he had consulted with the Arthur Anderson Company, who had done the work for Vanderbilt University. Evidently Dr. Senhauser knew someone at Vanderbilt, and in talking with him they had Arthur Anderson install their system out of their Atlanta office with some experts in this field. They were well-pleased, he said. And I suggested then that they move forward, the committee, and get other Big 8 firms involved, and particularly the firms that are doing our audit. I am mindful of the costs that are associated with this changeover. There is no use for us to educate someone and pay them to find out what we are already doing. We have auditors that have been through this and are in it. I suggested that they be brought in and review, make recommendations, bid on it, and to put a time limit on it. If a Big 8 firm had a contract

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Mr. Redman: (contd)

to install a system, they have the manpower -- instead of putting two people on it they could put twenty. If they had a time to meet, and time now seems to me to be the essence of the thing -- we could debate this from now until next year at this time and not get anything done. I tried to make it clear to the committee, in my view, that the time for that sort of thing is past.

We have agreed on a tentative solution to some of their concerns. For example, what happens to those doctors who have spent a lot of money on billing systems in their own offices and that if we installed another system, this would override theirs and they would all be out this money. I'm saying that I think if a doctor is injured by our insistence upon this change and he can demonstrate that he was, in fact, injured, then the University should pick up the tab. Well, that seemed to satisfy those folks. But I'm saying, and I said it to Dr. Tzagournis, you are going to have to show that you are, in fact, injured. Because a lot of times on IBM equipment you can program it one way and take it out and program it another way and you haven't lost any money. But if they were injured, then I think we are obligated to pick up that tab. That is the sort of thing we went through. We've agreed and they have agreed that they would have an outside billing firm, similar to a Visa card or any of those, who would do the billing for the doctors, collect the money, and distribute it. That leaves us out of that hassle. The problem that the doctors had involved confidentiality. I think they were concerned that we would find out what they were making, at least their gross income, and I assured them that we had no interest in that at this point. That was now taken care of under the Practice Plan and it was working and we didn't want to disturb that. We weren't making any effort to refine that plan, to get anything more, to do them harm, we just want them to get the bills straightened out. I first thought we should have one bill. If you are a patient in the hospital, you should get one bill covering everything. After this discussion, I was convinced that two bills would do the job. I wouldn't have any difficulty in paying two bills if I were a patient. One would cover the physician and all of the doctors involved: pathologists, radiologists, the orthopedic surgeon, the whatever, that would go through the third party. The hospital bill and all the associated costs of that would come with another bill. So we would have two bills. Now we've agreed on that, between me and the committee, but Dr. Senhauser said, "I'm just the chairman of the committee, I still have to talk to my committee." And I said, "not only that, but I still have to talk to the Board of Trustees. I'm not at all sure that their going to agree with what Redman's saying, but I think they will." So I'm reporting that is our progress to date. I propose now -- Dr. Senhauser has been out of the country, I guess, or at least out of the city, and I had hoped to make some further report on progress at this meeting. But what I'm going to suggest is that I meet with Dr. Senhauser and the committee again and have a report to you at the next meeting on what is a reasonable time for them to implement this further. I don't mean install it, but I'm saying let's hire the people. And my

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Mr. Redman: (contd)

suggestion is going to be ninety days that we give them in which to get other people in to review the problem, to make a proposal, and to move on. So, that is my report on the billing thing. If anybody has any questions---

Mrs. Bowser:

I think you're to be commended for the amount of time and interest that you have shown in this; it is certainly your area of expertise.

Mr. Redman:

Well, I would like to have Mr. Teaforde expound, just a bit, on this.

Mr. Teaforde:

Well, I will begin by saying "Amen." I amused you all last night with three bills or three mailings that I got in one day. One check refunding some of the money I had paid; another one, a bill for \$2.00 from the same people who were refunding the money; and still another bill for \$25.00, for which they said I hadn't paid. I still believe if I pay it, I'll get a check for \$25.00 back, eventually. But it all demonstrates that I think this system is for the benefit of the doctors, because everyone of those three things I got cost the doctors a lot of money and they didn't get any. I don't think anyone should think we are trying to shove something at the doctors which is injurious, I think quite the opposite. I think this is a program which the doctors will benefit from.

President Jennings:

Ed, I think you did extraordinarily well. It is, in medicine today, a general problem and it's wrapped up in anywhere from tradition to Medicaid rules and regulations. Ed, I think you did extraordinarily well, because it is appropriate to -- if there is a loss of investment in billing equipment associate with this, we should make that good. But we should make it good in the context of a fully depreciated item that is there. I think that is altogether appropriate and would be totally consistent with what we do. I think it is also appropriate to point out that this has absolutely nothing to do with the Practice Plan. We established a Practice Plan two years ago, as has been reported, that is up and working in terms of institutional knowledge of physician income. That Practice Plan provides that information to the chair of the department, to the dean, and to the president of the University. This has nothing to do with that. It is important to say that because the request for a central billing system came at the same time that we established a Practice Plan, and there was some thought that was the reason for it. But in fact, the reason is this is a generic problem across the United States and we need to try and deal with it. It is extraordinarily complex. I think we do need a Big 8 firm. For those members of the Board and in the

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President Jennings: (contd)

audience, we are talking about the Big 8 accounting firms, not the universities out west. I think, also, that Mike Covert, Dr. Tzagournis, and Dr. Senhauser should be complimented on this. This is slower than we would all like, but it is complicated and I think it is going to get done. Joel's experience is all of ours. Although, I might add, that if you were to join the University's PPO, you would get--

Mrs. Bowser:

I don't think we can, but I'd be happy to.

Mr. Teaford:

I told you before, Mr. President, if you make that available to the Trustees, I'd be joining it.

President Jennings:

We might have to talk about cutting your salary associated with this Board if you join.

Mr. Teaford:

Well, I'll take it.

Mr. Redman:

Well, if we have completed that subject, I'd like to ask Mr. Ihrig to tell us about Humana or MedOhio, formerly Humana. And that we ask him to do what we asked when we made the deal, which is to give us a monthly report on how much money we've lost--

Mr. Kessler:

Or made.

Mr. Redman

Well, I think all of the projections, Mr. Kessler, show that at least in the first year we were going to lose money. So they didn't withhold that information from us, but my only question is how much.

Mr. Ihrig:

Mr. Chairman, we summarized each of the quarters and we provided a monthly review of this, the Hospitals is reviewing it on a monthly basis. Since the first of April, when that operation initiated, there was a projected budget of net revenues of just over \$2 million, the net revenues have actually been at \$1.7 million. Expenses were projected at just over \$2.1 million, expenses have actually been at \$1.8 million. So, while the revenues have been down under projections, so have the expenses appropriately. The net income was budgeted to be a loss during that period of just over \$101,000, the actual loss in that

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Mr. Ihrig: (contd)

period is \$105,004. So, while the operations are close to budget, they still are on the negative side and that was during the start up period. I know, Mr. Covert and the Hospitals people are working to keep this more in line with budget, and hopefully do whatever possible to actually improve over budget. This is the budget that we had set up jointly with the review by the Price Waterhouse people, the consulting firm that we had in this. We are just about on target during the period.

Mr. Redman:

The only difference is the failure to include the costs of the interest which you have on your report here of \$105,000, during this period.

Mr. Ihrig:

That's correct.

Mr. Redman:

If you took that into consideration, we would have lost \$290,000 in three months?

Mr. Ihrig:

No, that would have been since April, seven months.

Mr. Redman:

I don't recall in the original discussion whether or not we put interest factor into that projection, but in any event, that is what it is.

Mr. Ihrig:

Yes, that is included in the total Hospitals operation.

Mr. Redman:

That is not an actual outlay, it is a computed figure.

Mr. Ihrig:

Correct.

Mr. Redman:

And because, as I understand it, we transferred money from the Hospitals reserve to make that \$6 million deal.

Mr. Ihrig:

The Hospitals is covering the capitalization costs of this as part of their total operations, that is correct.

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Mr. Redman:

So, we are not interdepartmentalized in charging interest against this operation from the Hospitals cost?

Mr. Ihrig:

No, that is correct.

Mr. Redman:

All right. Any questions, Mr. Kessler, you--

Mr. Kessler:

No, I was listening intently.

Mr. Redman:

I knew you had an interest in this. I suppose Mr. Covert would like to tell us what he has in mind to change the operation in order to cut down our loss.

Mr. Covert:

The second six months of our activity has been predicated on a reorganization of our physician contractual relationships. That is one item that there will be a difference financially. The other is a very specific, what I will refer to as marketing efforts in order to attract additional funds and activities in respect to that. I will be happy to come back to the Board with more specifics on how we will handle that over the next six months. I'd like to say we have been meeting on an every other week basis as it relates to the management of that activity.

There are a couple other activities we will look at -- the actual bids for support services, lab, and some of those services that will also reduce those activities as well, as we have an opportunity to expand with our in-house capability of doing this presently.

Mr. Redman:

So you really haven't swept it under the rug, you are paying some attention to it and hopefully reducing the loss?

Mr. Covert:

Mr. Chairman, I'm paying a great deal of attention to it.

Mr. Redman:

Thank you.

Mr. Teafor:

It sounds to me, too, Mr. Chairman, like this thing is doing

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Mr. Teaford: (contd)

quite well. As you know, I was one of the people who pushed hard on that score, but I am pleased with this report.

President Jennings:

And lest we focus too much on the dollars associated with this, we should keep in mind that it is a location for medical students and residents to deal with primary care issues, that as a tertiary care hospital we are poorly equipped to deal with. While I am sure Mike will deal with this issue well financially, we have to keep in mind the fundamental reason we are in this activity is for educational purposes, so that our students and residents can experience a primary medical situation that we find difficult to provide at the hospital.

Mr. Redman:

If there is any other report from the Hospitals Board we would be glad to receive it, otherwise, we will move on to the Development Fund. Mr. Kessler --

Mr. Kessler:

Thank you, Mr. Chairman. I would like to make a brief report on the Development Fund Board meeting held on October 9. The audit committee reported that the accounting firm of Touche Ross, which conducted the audits for 1985-86 and 1986-87, gave the Development Fund a clean bill of health.

Vice President Tobin updated the Board on the progress of the Capital Campaign; Vice President Ihrig gave an analysis of the cost effectiveness of the Campaign; and the Development Fund Board members also discussed suggestions for greater Board involvement with University Development staff. The next meeting of the Development Fund will be Friday, March 11, 1988, at the Fawcett Center.

Mr. Redman:

Thank you, Mr. Kessler. Are there any questions? We will move on then to Mr. Teaford for the University Foundation Board of Directors.

Mr. Teaford:

The Foundation Board, as you know, meets only twice a year. At our last meeting I did report on our meeting for the fall. The next meeting will be in April; basically, I will not have a report until then.

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Mr. Redman:

I call on Mr. Ihrig to give us a report on the enrollment for Autumn Quarter.

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Mr. Ihrig:

Thank you, Mr. Chairman. Members of the Board, you have previously been sent copies of a summary report by the Registrar of the enrollment statistics. I have included handouts of those reports before you. What I would like to do is make general overall comments about the trends and directions and where we came out and those reports are separate -- they are outside the books.

Table I, in that document, shows that the overall enrollment for the University was 58,397 students, which is 441 students less than last year. The Regional Campuses were generally up, with Newark leading the pack. They were up 17%, to 1,317 students. Marion, Mansfield, and Lima are up from a range of 2 to 7.7% students, and the Agricultural Technical Institute at Wooster was down 16 students from autumn to autumn. On the Columbus Campus we had a total of 53,115 students, which represents a decline from the previous year of 765 students.

When we look at our enrollment limitation, as we talked before 40,000 FTE, our latest numbers are and we are ready to report this -- 598 students FTE's over the 40,000 limit this year. That will bring us down from 749 that we were over last year to 598. So, we are going again in the right direction on this and it is coming down.

The mix of students has changed and not quite as we projected it. Last year in December when we made our projections, we were looking at a total headcount of over 54,000, with the growth that had happened the last couple of years and we have actually come out at 53,115. This makes us almost comparable to Autumn Quarter 1985 in grand totals, but with an interesting switch. There is an increase in graduate students and a light decrease in undergraduate students when you look at that period of time -- just about 450 fewer undergraduate students overall, and an increase of about 450 graduate students.

That mix change has happened with larger numbers, new admissions, and applicants to the graduate programs. At the same time, we have gone into selective admissions, and we always use the freshmen class as the place where we make the adjustments to come into the 40,000 FTE. This year was a real uncertainty in terms of our traditional enrollment trends, because going from application to admission under selective admission for the first year throughout all the prior data about yields on the number of students -- so we came out with a total of 6,314 new first quarter freshmen. We had projected, initially, around 6,500, with a range of 6,300 to 6,500. It came out at the lower end of that range, because of yield rates dropping from admissions to acceptance of admissions. There seems to be around the nation -- this is a national phenomena, not just Ohio State -- an increase in multiple applications by entering freshmen. People are shopping more, the application rates are up, and there was an increase in applications throughout the universities in Ohio. So, we found that our traditional 3% loss dropped to 5%.

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Mr. Ihrig: (contd)

We also found -- the other side we used some exception spaces for students who are outstanding scholars, who have outstanding performance capabilities in the arts, and also for athletic teams and nontraditional students. We didn't have to use as many of those nontraditional spaces this year as in the past. I think that is primarily due to the increased publicity regarding selective admissions, the increased awareness of students understanding that we are more in line with other universities admissions policies, rather than on a first come, first serve basis for the Autumn Quarter. All this tends to have worked to reduce the need for exception spaces and these students getting in under the normal process.

The dormitories, along the same line, are full again this year with about 9,600 undergraduates, 900 graduate students, and 400 in married student housing. The other interesting aspect that the housing people are very pleased with this year is the intensity and level of study in the dormitories and the lack of extraneous incidents. The study activity has really increased during the week in the dormitories and the extraneous incidents has really dropped off. It is a completely different environment in the dormitory system, and we think it is a direct impact of the selective admissions in those activities.

Overall we have had a decline in the part-time student and with the population in the Central Ohio area growing, I am hard pressed to understand that. There is a heavy decrease in the graduate level part-time, we have more full-time graduate students, but we've had a decline in the number of part-time graduate students. Now the Graduate School is extremely happy with this because of the full-time graduate students coming in. They see a significant increase -- from 6,832 to 6,934, a 1 1/2% increase. We think this decrease in part-time students is the result of a couple courses in the College of Education. There was a change in the State certification requirements that went into effect the first of July, that allowed college equivalent units for ongoing certification of teachers in addition to graduate credit. So the teachers in the State of Ohio have a broader degree of choices on how to keep their certification active than they have had in the past. The College of Education had lowered the number of off-campus courses they taught this year. So we have had some adjustment in the part-time, we think it is directly related to the change of certification within Ohio.

The application rate also among the graduate students, was up on the domestic students and down by 12% on foreign students applying to the Graduate School. Again, this goes back to University policies, as you remember, the toughening up and strengthening of the pretesting for graduate students having English as a second language, being able to be fluent in the classroom and being able to read English. We think the word has gotten out on this and those foreign students who aren't able to pass those tests and come in and be quality performers in the classrooms have gotten the word and have acted accordingly.

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Mr. Ihrig: (contd)

The professional school enrollments are down slightly and that is due to the ongoing adjustments in the entering classes of the professional schools. They had those peak years and they have been making slight downward adjustments to accommodate the appropriate levels that they consider for their colleges. When we look at the college shifts within, there is a heavy influx of more and more students selecting the arts and science colleges as their curriculum and enrollment emphasis. With enrollment management within the University, there is a continued decrease in engineering and that is a planned decrease. The real heavy increase has been in the arts and sciences and there seems to be fewer students in those colleges in an undecided mode.

Mr. Teaforde:

There is a big increase in journalism, too, which is distressing.

Mrs. Bowser:

Now, Joel.

President Jennings:

Actually, there is a huge increase in journalism. Most of that increase is the advertising curriculum --

Mr. Teaforde:

Good. That's OK.

Mrs. Bowser:

And public relations. We need public relations.

President Jennings:

The Journalism faculty is having a tough time adjusting to the great leaps, but that will level out.

Mr. Scott:

You might be interested in knowing, Mr. Teaforde, that we have half of a journalism class here today.

Mr. Teaforde:

I know that.

Mr. Ihrig:

The credit hour loads by the students remain essentially the same in most categories. The graduate student credit hour loads increased slightly and again that is part of the adjustment on the part-time to full-time students that we are experiencing.

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Mr. Ihrig: (contd)

When we look at the sources of enrollments of the students basically there was very little change. The students from Ohio represent 86.8% of the total student body enrollment versus 87.4%, a 6/10 of a percent decline this year. That was made up of students from other U.S. states and territories which went up from 7.5% to 8.1%. The foreign students still remain at 4.7%, or 2,757 students, out of the entire student body.

The final bit of information I have on the enrollment relates to the minority students. The overall minorities did have a slight increase this year over the previous year, total minorities went up from 4,046 to 4,127. However, black enrollments totally went from, on the Columbus Campus, 2,313 down to 2,357; while at the same time the black students had an increase from 361 to 383 in the entering freshman class. That represents 6.1% of the entering freshman class on the Columbus Campus. Looking at some of the numbers, also, it was interesting to note that during the last academic year there were 400 black students who received their degrees from Ohio State from all areas. That was up from 379 black students who received their degree the previous year, and 320 the year before. So I think the good news is the increasing number of black students that are receiving their degrees, and at the same time we are bringing increasing numbers into the freshman class. I think that is the trend in the right direction which we are looking toward in the long-term on the action plan the Provost talked about previously.

Mr. Teaford:

Are those American black students?

Mr. Ihrig:

Yes, and we separate those out from the foreign. I would be glad to try to respond to any questions that you may have.

Mr. Redman:

Mr. Ihrig, two questions -- in your judgement, has the increase in the enrollment fee caused any problems, other than to the students, to Ohio State?

Mr. Ihrig:

Yes. That is an interesting phenomena, because a year ago we did not increase tuitions at all, the previous fiscal year, and the enrollment trends held up and then we had the increase this year. I'm not going to say that there would not be any impact, because there will be some students that might have to take an extra quarter off to work to have the money to go on. However, we did increase the financial aid activity enough to accommodate the students. The most important part of that, is that the two-year increase was below the State averages overall during that period. So the unfortunate part is that it was beneficial to those students in the year we didn't increase it, and then it

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Mr. Ihrig: (contd)

hit harder in the second year. So, some of the students may have gotten caught on that.

Mr. Redman:

But we did that because of the uncertainty on the State budget, we didn't know what we were going to get.

President Jennings:

No, let's recognize that the original recommendation on the State budget was for all institutions of higher education in the State of Ohio to increase tuition by 33%. As that went through the various processes, the budget passed initially by the House was a recommendation to increase tuition by 27%. As the budget was finally passed by the House and Senate and signed by the Governor, the increase recommended was a 22% tuition increase. And as we have been doing for the past several years, we have attempted to do roughly half of what the State recommends in their budget processes, and we ended up with an 11% recommendation. Part of the uncertainty is that we set these tuitions tentatively in May, when there was no bill, at a somewhat lower rate with an expectation that the final bill passed would allow us to increase tuition by only 8%, which would have been again roughly half. In conference committee those monies were removed from the budget. I think it is also important to recognize that as we look around, as Weldon said, the scholarship fund -- not only was it's purchasing power maintained, but it was also increased to accommodate those students who then became eligible for aid or more aid because of the tuition increase.

I might also add that if some units in the State were setting their budgets on a basis of a 3% or 4% tuition increase, they must not have been listening very much over the entire spring operation when these 1/3 increases were being recommended.

Mr. Teaford:

I think we also might want to point out, Mr. President, in light of our discussion earlier about library hours and cost containment, one of the options which was chosen by the University was not to increase tuition by the recommended percentages and that resulted in the cost containment. We deal in a lot of rough choices, and that is just one more of them.

Mr. Redman:

The other question I have is -- and this is an interest to Mrs. Bowser, I think -- our enrollment in the Agricultural College, as I read it, dropped from 1,290 to 1,268, is that correct?

Mr. Ihrig:

Yes, that is correct. That decline though in the number of agricultural students is slowing down --

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Mrs. Bowser:

I was going to say, that is a lesser drop than it has been.

Mr. Ihrig:

Yes, that is right. When we take the credit hours involved we actually had a slight increase in the total FTE's enrollments.

Mr. Redman:

Well, we hope we get it around to where it will go up, instead of thinking we're doing great if it only goes down 10% instead of 50%.

President Jennings:

Well, remember that 1,200 is roughly half of what the enrollment in the College of Agriculture was in 1976. Over that period of time it has dropped by roughly by 50%.

Mr. Redman:

I hope it is not a continuing trend. I was certainly impressed when we had the meeting at Wooster and some of the things that those folks are doing and the people we got from Texas to implement these new agricultural experiments, and so on. Hopefully this will attract additional students in the College of Agriculture.

President Jennings:

It is also a national trend, let's recognize that --

Mrs. Bowser:

Well, there are reasons for it.

President Jennings:

The career opportunities are easily perceived as being somewhat less than they were.

Mr. Teaford:

Part of the reason though is that the College of Agriculture has split into two colleges.

President Jennings:

Yes, Home Economics is separate now. When I talk about the half, I am talking about just the current College of Agriculture. The Home Economics has been removed from that, but even if you remove the Home Economics, it is still a 50% decline.

Mr. Redman:

Thank you, Mr. Ihrig.

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Mr. Ihrig:

Thank you.

President Jennings:

Mr. Chairman, let me just make one comment about that enrollment report. It is very good considering all that we have been through on the enrollment activities. The uncertainty that Weldon and his people are having to deal with on the enrollment, I'm very confident, will continue, not only in the yield figures as we move toward selective admissions throughout the institution, but our retention rates will continue to improve as the years go on. But how much they will improve will be very difficult to project, and we should still have uncertainty. Also, I want to be sure to emphasize that any declines we have overall is not policy. The policy basically is to keep the enrollment where it is right now, declines or increases are simply because statistically we missed the numbers by a small amount. And when you miss by 400 out of 60,000, it ain't too bad, Mr. Accountant.

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**AMENDMENT TO THE BYLAWS OF THE MEDICAL
STAFF OF THE OHIO STATE UNIVERSITY HOSPITALS**

Resolution No. 88-41

Synopsis: Amendment to the Bylaws of the Medical Staff of The Ohio State University Hospitals is proposed.

WHEREAS The Ohio State University Hospitals Board pursuant to Bylaw 3335-101-04 of the Hospitals Board Bylaws is authorized to recommend to the Board of Trustees the adoption of amendments to the Bylaws of the Medical Staff of The Ohio State University Hospitals; and

WHEREAS the proposed amendment to Bylaw 3335-43-07 was approved at the University Hospitals Board meeting on September 24, 1987, as follows:

AMENDED BYLAW

3335-43-07 Divisions of the medical staff.

(A) through (D) unchanged.

(E) Clinical privileges.

(1) Restrictions:

- (a) Every person practicing at university hospitals by virtue of medical staff membership or otherwise shall, in connection with such practice, be entitled to exercise those clinical privileges specifically granted to him by the clinical department of which he is a member. The

November 5 and 6, 1987 meeting, Board of Trustees

**AMENDMENT TO THE BYLAWS OF THE MEDICAL
STAFF OF THE OHIO STATE UNIVERSITY HOSPITALS (contd)**

process of delineating privileges shall be the responsibility of the clinical division chief with the approval of the chief of the clinical department if there is no clinical division and shall be on file with the medical director. A medical staff member may contest the specific privileges granted to him under rule 3335-43-04 of the Administrative Code.

- (b) The evaluation of every initial application for clinical privileges shall be based upon the applicant's education, training, experience, demonstrated competence, references and other relevant information, including an appraisal by the clinical division chief of the division in which such privileges are sought. The applicant shall have the burden of establishing his qualifications and competence in the clinical privileges and the recommendation for increase or reduction of same shall be the responsibility of each clinical division chief or clinical department chief.

(2) Special privileges:

Under special circumstances privileges at the university hospitals may be granted to a doctor of medicine, osteopathic medicine, dental surgery, and to a practitioner of podiatry by the clinical department chief or his designee in concurrence with the medical director. The extent of privileges will be governed by the applicant's training and experience and will be in keeping with clinical department guidelines.

(3) Podiatric privileges:

- (a) All patients admitted for podiatric care shall receive the same medical appraisal as all other hospitalized patients. A member of the medical staff who is a doctor of medicine or osteopathic medicine shall admit the patient and be responsible for the history and physical and medical care that may be required at the time of admission or that may arise during hospitalization, and shall determine the need of any proposed procedure on the total health status of the patient. The podiatrist will be responsible for the podiatric care of the patient including the podiatric history and physical examination and all appropriate elements of the patient's record. Any proposed procedures by the podiatrist must be approved by, and be under the direct supervision of, an active member of the medical staff who is a doctor of medicine or osteopathic medicine.
- (b) The podiatrist will be responsible to the chairperson of the department of surgery.

(4) Associates to the medical staff privileges:

Other health care professionals who are duly licensed in the

November 5 and 6, 1987 meeting, Board of Trustees

AMENDMENT TO THE BYLAWS OF THE MEDICAL
STAFF OF THE OHIO STATE UNIVERSITY HOSPITALS (contd)

state of Ohio and who are members of the faculty of the Ohio state university college of medicine may be granted clinical privileges to provide specified patient care services under the supervision or direction of a physician member of the medical staff. Such professionals must apply for privileges in the same manner as provided in rule 3335-43-04 of the Administrative Code and this rule for medical staff membership and clinical privileges. Each person granted privileges must be assigned to a clinical department appropriate to his professional training and will be responsible to the chief of the clinical department for his activities. The medical staff administrative committee may establish particular qualifications required of members of a specific health care profession, provided that such qualifications are not founded on arbitrary or discriminatory basis and are in conformance with applicable law. No other section of the medical staff bylaws, including the appeals mechanism, applies to these individuals.

- (5) A physician may employ or utilize the services of a professional assistant in the administration of patient care if this assistant has a defined job description, has received credentials review and approval by the appropriate hospital reviewing body, and is operating within existing hospital standards, policies, and procedures. The physician will be responsible for all patient care activities performed on his/her behalf.

NOW THEREFORE

BE IT RESOLVED, That the foregoing amendments to the Bylaws of the Medical Staff of The Ohio State University Hospitals be adopted as recommended by the University Hospitals Board.

Upon motion of Mrs. Bowser, seconded by Mr. Teaford, the Board of Trustees adopted the foregoing resolution by unanimous voice vote.

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CORRECTION

Resolution No. 88-42

Resolution 88-32 naming the building at 10th and Neil Avenues, "Arthur G. James Hall" of The Ohio State University Cancer Hospital and Research Institute and approved by this Board on October 2, 1987, is amended as follows. The portion of the resolution which reads:

NOW THEREFORE

BE IT RESOLVED, That hereafter the building at 10th and Neil Avenues shall bear the name, "Arthur G. James Hall" of The Ohio State University Cancer Hospital and Research Institute.

is amended to read (underlining indicates corrected language):

NOW THEREFORE

November 5 and 6, 1987 meeting, Board of Trustees

CORRECTION (contd)

BE IT RESOLVED, That hereafter the building at 10th and Neil Avenues shall bear the name, "The Arthur G. James Cancer Hospital and Research Institute of The Ohio State University," in honor of Dr. Arthur G. James.

Upon motion of Mr. Wolf, seconded by Ms. Casto, the Board of Trustees adopted the foregoing resolution by unanimous voice vote.

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DEGREES AND CERTIFICATES - AUTUMN QUARTER COMMENCEMENT

Resolution No. 88-43

Synopsis: Approval is being requested for awarding degrees and certificates for Autumn Quarter Commencement.

WHEREAS pursuant to paragraph (E) of rule 3335-1-06 of the Administrative Code, the Board has authority for the issuance of degrees and certificates; and

WHEREAS the faculties of the colleges and schools shall transmit, in accordance with rule 3335-9-29 of the Administrative Code, for approval by the Board of Trustees the names of persons who have completed degree and certificate requirements:

NOW THEREFORE

BE IT RESOLVED, That the degrees and certificates be conferred on December 11, 1987, to those persons who have completed the requirements for their respective degrees and certificates and are recommended by the colleges and schools, and that the names of those persons awarded degrees and certificates be included in the minutes of this meeting.

Upon motion of Mr. Teaford, seconded by Mr. Kessler, the Board of Trustees adopted the foregoing resolution by unanimous voice vote.

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HONORARY DEGREES

Resolution No. 88-44

Synopsis: Approval is requested for awarding honorary degrees to four individuals.

WHEREAS the Committee on Honorary Degrees and the University Senate, pursuant to rule 3335-5-488 of the Administrative Code, have approved for recommendation to the Board of Trustees awarding of honorary degrees as listed below:

Erich Bloch

Doctor of Science and Engineering

Philip Johnson

Doctor of Arts

November 5 and 6, 1987 meeting, Board of Trustees

HONORARY DEGREES (contd)

Richard M. Morrow

Doctor of Engineering

Peter Taylor

Doctor of Letters

NOW THEREFORE

BE IT RESOLVED, That the above honorary degrees be awarded in accordance with the recommendation at a time convenient to the University and the recipients.

Upon motion of Mr. Wolf, seconded by Mr. Teaford, the Board of Trustees adopted the foregoing resolution by unanimous voice vote.

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PERSONNEL ACTIONS

Resolution No. 88-45

RESOLVED, That the personnel actions as recorded in the Personnel Budget Records of the University since the October 2, 1987 meeting of the Board, including the following Appointments, Appointment of Chairpersons of Departments, Appointment of Chairperson of Department--Change of Dates, Leaves of Absence Without Salary, Leaves of Absence Without Salary--Continuation, Professional Improvement Leave--Change of Dates, and Emeritus Titles as detailed in the University Budget be approved, and the Medical Staff Appointments/Reappointments approved September 24, 1987, by the Hospitals Board be ratified.

Appointments

Name: JOHN M. CASSADY
Title: Dean/Professor
College/Division: Pharmacy/Medicinal Chemistry and Pharmacognosy
Effective: April 1, 1988
Salary: \$98,000.00
Present Position: Professor and Department Head, Purdue University, School of Pharmacy and Pharmacal Sciences, Department of Medicinal Chemistry and Pharmacognosy

Name: OLGA JONASSON
Title: Chairperson/Professor (The Robert M. Zollinger Chair of Surgery)
Department: Surgery
Effective: October 1, 1987
Salary: \$115,080.00
Present Position: Chairperson/Professor, Department of Surgery

Name: DOUGLAS J. WHALEY
Title: Professor (The James W. Shocknessy Professorship of Law)
College: Law
Effective: October 1, 1987
Salary: \$81,480.00
Present Position: Professor, College of Law

November 5 and 6, 1987 meeting, Board of Trustees

PERSONNEL ACTIONS (contd)

Appointment of Chairpersons of Departments

September 15, 1987 through June 30, 1988

Horticulture

James D. Utzinger*

October 1, 1987 through June 30, 1991

Educational Studies: Humanities, Science,
Technological and Vocational
Educational Theory and Practice

Gilbert A. Jarvis
Frank J. Zidonis

*Acting Chairperson

Appointment of Chairperson of Department--Change of Dates

October 1, 1987 through June 30, 1991

Surgery

Olga Jonasson

Leaves of Absence Without Salary

STEPHEN J. RALLIS, Professor, Department of Mathematics, effective Winter Quarter 1988, to accept a Fellowship at the Institute for Advanced Studies at Hebrew University in Jerusalem.

KARL RUBIN, Professor, Department of Mathematics, effective Spring Quarter 1988, to visit the University of Cambridge (England), the University of Erlangen (West Germany), and the Max-Planck-Institut in Bonn (West Germany).

MARTHA S. PITZER, Assistant Professor, Department of Life Span Process, effective Autumn Quarter 1987, Winter Quarter and Spring Quarter 1988, to work on research projects.

ALICE SILVERBERG, Assistant Professor, Department of Mathematics, effective Spring Quarter 1988, to partake in a special program on Algebraic Geometry and Abelian Varieties at the Mathematisches Institut, Universitat Erlangen-Nurnberg, Germany.

GALAL WALKER, Assistant Professor, Department of East Asian Languages and Literatures, effective Autumn Quarter 1987 and Winter Quarter 1988, to participate in the research program of the National Foreign Language Center, Washington, D.C.

Leaves of Absence Without Salary--Continuation

YUJI KODAMA, Associate Professor, Department of Mathematics, effective Autumn Quarter 1987 and Winter Quarter 1988, to continue his work at the University of Nagoya in Japan.

Leaves of Absence Without Salary--Continuation

REBECCA D. JACKSON, Assistant Professor, Department of Internal Medicine, effective September 21, 1987, through October 18, 1987, for medical reasons.

November 5 and 6, 1987 meeting, Board of Trustees

PERSONNEL ACTIONS (contd)

Professional Improvement Leave--Change of Dates

JACK L. NASAR, Associate Professor, Department of City and Regional Planning, change leave from Autumn Quarter 1987, Winter Quarter and Spring Quarter 1988, to Autumn Quarter 1988, Winter Quarter and Spring Quarter 1989.

Emeritus Titles

JOHN O. KANGAS, Department of Psychiatry, with the title Professor Emeritus, effective January 1, 1987.

BERLIE L. SCHMIDT, Department of Agronomy, with the title Professor Emeritus, effective November 1, 1987.

LAKIE H. GILLESPIE, Cooperative Extension Service, with the title Instructor Emeritus, effective November 1, 1987.

Upon motion of Ms. Casto, seconded by Mrs. Bowser, the Board of Trustees adopted the foregoing resolution by unanimous roll call vote.

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RESOLUTIONS IN MEMORIAM

Resolution No. 88-46

Synopsis: Resolutions honoring the service of four of the University's faculty members who have recently died are being proposed.

RESOLVED, That the Board adopt the following Resolutions in Memoriam and that the President be requested to convey a copy to the families of the deceased.

George B. Ganyard

The Board of Trustees of The Ohio State University expresses its sorrow upon the death on May 25, 1987, of George B. Ganyard, Instructor Emeritus in the Cooperative Extension Service.

Mr. Ganyard was born on October 29, 1898, in Stow, Ohio. He received his B.S. in Agriculture from The Ohio State University in 1921; then spent thirteen years operating a dairy farm in Medina County.

Mr. Ganyard began his Extension experience when he joined the faculty at The Ohio State University in 1934 as a County Agricultural Agent in Richland County. In 1948, he became the County Agricultural Agent in Franklin County and continued in this position until his retirement in 1965, when he was named Instructor Emeritus. Mr. Ganyard was respected by his peers and associates throughout the State as he worked to provide excellent Extension educational programs for the citizens in his county.

On behalf of the University community, the Board of Trustees expresses to the family of George B. Ganyard its deepest sympathy. It was directed

November 5 and 6, 1987 meeting, Board of Trustees

RESOLUTIONS IN MEMORIAM (contd)

George B. Ganyard (contd)

that this resolution be inscribed upon the minutes of the Board of Trustees and that a copy be tendered to the family as an expression of the Board's heartfelt sympathy.

Malcolm L. Gardner

The Board of Trustees of The Ohio State University expresses its sorrow upon the death on August 30, 1987, of Dr. Malcolm Gardner, Associate Professor Emeritus in the Department of Psychiatry.

Professor Gardner received his undergraduate degree from the College of Charleston in 1947 and his Ph.D. degree from the University of Illinois in 1955. He began his 24-year career at The Ohio State University in 1956, when he became the Coordinator of Psychological Training for the Columbus Psychiatric Institute and Hospital. When the Institute became part of The Ohio State University Hospitals, Dr. Gardner was the first Director of Psychological Services, an appointment he held from 1959 to 1966. From 1966 until his health-related retirement in 1980, Mac served as Chief Psychologist in the Adult Psychiatry Clinic of University Hospitals. During this period he was instrumental in developing Group Psychotherapy and Human Sexuality programs within the Department of Psychiatry; he also made significant contributions to the teaching and training of medical students, psychiatric residents, and psychology interns. Upon his retirement in 1980, he was named Associate Professor Emeritus.

In 1976, Dr. Gardner was awarded the Distinguished Service Award by the Ohio Psychological Association in recognition of his numerous contributions to the discipline of Psychology throughout the State of Ohio. Two years later, Dr. Gardner served as President of the Ohio Psychological Association.

On behalf of the entire University Community, the Board of Trustees expresses to the family of Dr. Malcolm L. Gardner its deepest sympathy. It was directed that this resolution be inscribed upon the minutes of the Board of Trustees and that a copy be tendered to his wife and family as an expression of the Board's heartfelt sympathy.

Jack N. Taylor

The Board of Trustees of The Ohio State University expresses its sorrow upon the death on September 7, 1987, of Jack N. Taylor, M.D., Associate Professor Emeritus in the Department of Surgery.

Dr. Taylor was born in Jacksonville, Florida, on August 15, 1918. He received his B.A. degree from The Ohio State University and his M.D. degree from Harvard Medical School. He did his internship at Boston City Hospital and his residency in Surgery at The Ohio State University. He completed his Urology residency at the University of Michigan.

After completing military service as captain, he became an Assistant Professor in the Division of Urology, Department of Surgery, and

November 5 and 6, 1987 meeting, Board of Trustees

RESOLUTIONS IN MEMORIAM (contd)

Jack N. Taylor (contd)

Associate Professor in 1960. Upon his retirement in 1985, he was named Associate Professor Emeritus. Dr. Taylor was active in many professional societies, including the American Urological Association and the American College of Surgeons. He was a past president of the North Central Section of the American Urological Association, a member of the American Medical Association, and was past president of the Rotary Club of Columbus.

On behalf of the University community, the Board of Trustees expresses to the family of Jack N. Taylor, M.D., its deepest sympathy. It was directed that this resolution be inscribed upon the minutes of the Board of Trustees and that a copy be tendered to the family as an expression of the Board's heartfelt sympathy.

Benjamin Roland Wiltberger

The Board of Trustees of The Ohio State University expresses its sorrow upon the death on June 3, 1987, of Benjamin Roland Wiltberger, Clinical Professor Emeritus in the Department of Surgery.

Dr. Wiltberger graduated from The Ohio State University with a Bachelor's degree in 1936 and, in 1940, received his Doctor of Medicine degree. He served an internship and later completed his residency in orthopaedic surgery in 1947 at the Henry Ford Hospital in Detroit, Michigan. Dr. Wiltberger's post-graduate training was interrupted by his service in the United States Army Medical Corp in Europe and Africa from August 1942 through April 1946, at which time he was discharged as a captain with two bronze star decorations.

Dr. Wiltberger was appointed Clinical Instructor at The Ohio State University College of Medicine in 1952 and received promotions through July 1969, at which time he was appointed Clinical Professor. Upon his retirement in 1984, he was named Clinical Professor Emeritus.

Dr. Wiltberger was a pioneer in the treatment of ruptured intervertebral disc disease by the use of intervertebral dowel fusion, both in the lumbar and cervical spine. This technique is now performed throughout the world and was first described by Dr. Wiltberger. His bibliography includes twenty-three publications relative to orthopaedic surgery, as well as numerous presentations at national and international meetings.

Dr. Wiltberger's achievements include membership in the society of Sigma Xi, as well as election to the Alpha Omega Alpha Medical Honor Society while in medical school. He was a member of the American Academy of Orthopaedic Surgeons, The American Board of Orthopaedic Surgery and The American College of Surgeons. In addition to this, he was a member of eleven other medical and surgical societies. Dr. Wiltberger was elected to membership in The Ohio State University's President's Council in 1979, and received the Alumni Achievement Award in 1980. He received the order of Hippocrates from The Ohio State University College of Medicine Medical Alumni Society in April 1983.

November 5 and 6, 1987 meeting, Board of Trustees

RESOLUTIONS IN MEMORIAM (contd)

Benjamin Roland Wiltberger (contd)

In addition to his academic career, Dr. Wiltberger was involved in the private practice of orthopaedic surgery at The Ohio State University Hospitals, Riverside Methodist Hospital and St. Anthony Hospital, where he served as chief of staff. Throughout his career, Dr. Wiltberger was a loyal, generous, innovative, enthusiastic teacher and supporter of the Division of Orthopaedic Surgery of The Ohio State University College of Medicine. His contributions to orthopaedic surgery and to education have been appreciated by his many residents and medical students. His absence is strongly felt by The Ohio State University College of Medicine and the community of Columbus, Ohio.

On behalf of the University community, the Board of Trustees expresses to the family of Benjamin Roland Wiltberger its deepest sympathy. It was directed that this resolution be inscribed upon the minutes of the Board of Trustees and that a copy be tendered to the family as an expression of the Board's heartfelt sympathy.

Upon motion of Ms. Casto, seconded by Mr. Wolf, the Board of Trustees adopted the foregoing resolution by unanimous voice vote.

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REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS

Resolution No. 88-47

Synopsis: The reports on contracts, grants, and gifts and the summary for September 1987 are presented for Board acceptance.

WHEREAS monies are solicited and received on behalf of the University from governmental, industrial, other agencies, alumni, and various individuals in support of research, instructional activities, and service; and

WHEREAS such gifts and grants are received through The Ohio State University Research Foundation, the Engineering Experiment Station of The Ohio State University, The Ohio State University Development Fund, and The Ohio State University Foundation:

NOW THEREFORE

BE IT RESOLVED, That the research agreement between The Ohio State University and The Ohio State University Research Foundation for the contracts and grants reported herein, and the acceptance of the reports from the Engineering Experiment Station, The Ohio State University Development Fund, and The Ohio State University Foundation during the month of September 1987 be approved.

Upon motion of Mrs. Bowser, seconded by Mr. Wolf, the Board of Trustees adopted the foregoing resolution by unanimous voice vote.

November 5 and 6, 1987 meeting, Board of Trustees

REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)

SUMMARY FOR SEPTEMBER 1987

Source	No. of Projects	Support Level
The Ohio State University Research Foundation	95	\$9,624,780.26
Engineering Experiment Station	62	337,493.00
Total	157	\$9,962,273.26

The Ohio State University Development Fund

Establishment of Named Fund

The Steve & Sarah O'Donnell Fund for University Systems (To benefit University Systems employees)	\$ 400,000.00
The M.D./Ph.D. Endowment in the College of Medicine (Research scholarships)	\$ 139,755.00
The Elmer S. Bowers Scholarship Fund (Scholarships)	\$ 134,890.27
Helen C. Clabaugh Scholarship Fund (Scholarships - College of Home Economics)	\$ 66,557.70
The Simon H. Leister Engineering Scholarship and Grant-In-Aid Fund (Scholarships and/or grants-in-aid)	\$ 50,000.00
Luther M. Keith Lectureship in Surgery (Annual lecturer in the College of Medicine)	\$ 21,000.00
Edna and R. George Jaap Scholarship Fund (Scholarships - College of Agriculture)	\$ 15,000.00

Change of Name and Description of Named Fund

From: Lois E. Dickey Endowment
To: Lois E. Dickey and Esther A. Meacham Endowment

Change in Description of Named Funds

Roy E. Roeder Memorial Scholarship Fund

Zelma L. Roeder Memorial Scholarship Fund

November 5 and 6, 1987 meeting, Board of Trustees

REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)

SUMMARY FOR SEPTEMBER 1987 (contd)

The Ohio State University Foundation

Approval of Description and Establishment
of Funds

Portion Transferred
for Program Support*

Shih-Yuan Michael Chen, Ph.D., Scholarship
Fund

The Community Mutual Blue Cross/Blue Shield
Fund

*Portion transferred is to be specified annually in a report submitted by
the University Treasurer.

REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)

THE OHIO STATE UNIVERSITY
OFFICE OF UNIVERSITY DEVELOPMENT
OSU FOUNDATION & DEVELOPMENT FUND RECEIPTS

July-September
1986-87 compared to 1987-88

GIFT RECEIPTS BY DONOR TYPE

	July 1986-87	Donors through September 1987-88	% Change	July 1986-87	Dollars through September 1987-88	% Change
Alumni	13,590	12,249	(10)	\$1,579,447	\$1,315,442	(17)
Non Alumni	8,498	7,622	(10)	2,259,662	1,359,927	(40)
Corporations	506	451	(11)	1,836,755	1,556,576	(15)
Corporate Foundations	122	138	13	224,957	375,185	67
Private Foundations	39	44	13	572,769	5,354,163	835
Other	<u>214</u>	<u>245</u>	14	<u>730,668</u>	<u>803,336</u>	10
TOTAL	22,969	20,749	(10)	\$7,204,258	\$10,764,629	49

REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (cont'd)

The Ohio State University Campaign
Progress Report
@ September 30, 1987

	<u>*Campaign Expectancies</u>	<u>Current Year Campaign Receipts (July-Sept. 87)</u>	<u>Previous Years' Campaign Receipts As of June 30, 1986</u>	<u>Total</u>	<u>Campaign Goal</u>	<u>% Achieved</u>
Alumni	\$60,472,108	\$1,315,442	\$27,516,929	\$89,304,479	\$122,500,000	73
Friends	34,862,167	1,359,927	20,800,770	57,022,864	70,000,000	81
**Corporations	12,697,668	2,735,097	66,838,006	82,270,771	122,500,000	67
Foundations	<u>3,320,500</u>	<u>5,354,163</u>	<u>8,925,528</u>	<u>17,690,191</u>	<u>35,000,000</u>	51
Totals	\$111,442,443	\$10,764,629	\$124,081,233	\$246,288,305	\$350,000,000	70

*Defined as pledges and deferred commitments less payments already received.

**Corporations, businesses, associations and private agencies.

November 5 and 6, 1987 meeting, Board of Trustees

REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)

THE OHIO STATE UNIVERSITY RESEARCH FOUNDATION

Report - September 1987

Federal Research Contracts/Grants

\$594,412.00 - Department of Health and Human Services, Public Health Service, Health Resources and Services Administration, Rockville, Maryland, East Central Regional AIDS Education and Training Center, Department of Family Medicine (L. L. Gabel) and Department of Internal Medicine (M. F. Para), 1 September 1987 through 31 August 1988. (Project 766345 - New)

\$582,500.00 - National Aeronautics and Space Administration, Washington, D.C., A Center for Commercial Development of Space: Real-Time Satellite Mapping, Center for Mapping (J. D. Bossler); Department of Geodetic Science and Surveying (I. I. Mueller, C. C. Goad and A. F. Schenk); Department of Civil Engineering (S. E. Smith, M. R. McCord and K. W. Bedford); Department of Agronomy (B. L. Schmidt and T. J. Logan); Department of Agricultural Engineering (A. D. Ward and B. H. Nolte); and Department of Geography (H. J. Moellering), 1 September 1987 through 29 February 1988. (Project 765707 - Continuation)

\$550,300.00 - Department of Commerce, National Oceanic and Atmospheric Administration, Rockville, Maryland, Ohio Sea Grant Program, Center for Lake Erie Area Research (C. E. Herdendorf, J. M. Reutter, M. Brainard and D. E. Rathke); Department of Agricultural Economics and Rural Sociology (L. J. Hushak, C. S. Thraen and A. J. Randall); Department of Zoology (D. A. Culver, D. W. Garton, T. A. Bookhout and F. J. Margraf); Department of Civil Engineering (J. G. Lyon, M. R. McCord, S. E. Smith and K. W. Bedford); Department of Welding Engineering (C. L. Tsai); Department of Natural Resources (R. W. Fortner); Department of Educational Theory and Practice (V. J. Mayer); and Cooperative Extension State Operations (P. R. Thomas), 1 September 1987 through 31 August 1988. (Project 764320 - Continuation)

\$478,856.00 - International Development Cooperation Agency, Agency for International Development, Washington, D.C., Improvement of Savings and Credit Services by Rural Financial Institutions in Developing Countries, Department of Agricultural Economics and Rural Sociology (R. L. Meyer and J. Havlicek, Jr.), 1 September 1986 through 31 December 1988. (Project 763301 - Continuation)

\$211,905.00 - Department of Health and Human Services, Public Health Service, National Institutes of Health, Bethesda, Maryland, Topical In-Vivo Electron Spin Resonance, Department of Chemistry (L. J. Berliner), 15 August 1987 through 14 August 1988. (Project 766380 - New)

\$199,047.00 - Department of Health and Human Services, Public Health Service, National Institutes of Health, Bethesda, Maryland, Biochemistry of Natural Products, Biotechnology Programs (P. E. Kolattukudy), 1 July 1987 through 31 December 1987. (Project 766224 - New)

November 5 and 6, 1987 meeting, Board of Trustees

REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)

THE OHIO STATE UNIVERSITY RESEARCH FOUNDATION (contd)

Federal Research Contracts/Grants (contd)

\$195,500.00 - Department of Energy, Oak Ridge, Tennessee, Instrument for Measurement of Particle Sizes in Flames, Department of Mechanical Engineering (R. H. Essenhigh), 15 September 1987 through 14 September 1990. (Project 766372 - New)

\$149,330.00 - Department of Health and Human Services, Public Health Service, National Institutes of Health, Bethesda, Maryland, Ion Transport by Heart Mitochondria, Department of Physiological Chemistry (G. P. Brierley), 1 September 1987 through 31 August 1988. (Project 760026 - Continuation)

\$146,428.00 - National Science Foundation, Washington, D.C., Application of the Knowledge Based System Approach to Operational Problems of Engineering Systems, Department of Mechanical Engineering (D. W. Miller and B. Hajek); and Department of Computer and Information Science (B. Chandrasekaran), 15 September 1987 through 28 February 1990. (Project 766356 - Continuation)

\$146,400.00 - Department of Health and Human Services, Public Health Service, National Institutes of Health, Bethesda, Maryland, Carcinogenesis, Molecular and Cellular Biology, Cancer Research Center and Department of Physiological Chemistry (G. E. Milo), 1 September 1987 through 31 August 1988. (Project 764351 - Continuation)

\$115,925.00 - Department of the Army, Army Research Office, Research Triangle Park, North Carolina, Studies on Syntheses and Derivatives of Boron Hydride Systems, Department of Chemistry (S. G. Shore), 1 July 1987 through 30 June 1988. (Project 764813 - Continuation)

\$111,001.00 - Department of Education, Office of Special Education and Rehabilitation Services, Washington, D.C., Facilitating the Transition from School to Work of Severely Learning Disabled Secondary Students, Department of Human Services Education (B. S. Growick and M. A. Klein), 1 October 1987 through 30 September 1988. (Project 765731 - Continuation)

\$105,827.00 - National Science Foundation, Washington, D.C., Holocene Paleoclimatic Reconstruction from Greenland Ice Cores, Byrd Polar Research Center (E. Mosley-Thompson and L. G. Thompson), 1 August 1987 through 31 July 1988. (Project 765661 - Continuation)

\$104,266.00 - Department of Agriculture, Cooperative State Research Service, Washington, D.C., Development of a Vaccine for Potomac Horse Fever, Department of Veterinary Pathobiology (Y. Rikihisa), 15 September 1987 through 30 September 1989. (Project 766370 - New)

\$92,277.00 - Department of Health and Human Services, Public Health Service, National Institutes of Health, Bethesda, Maryland, Mechanisms of Hexose Epimerases and Oxidoreductases, Department of Chemistry (R. M. Mayer and H. G. Floss), 1 September 1987 through 31 August 1988. (Project 765015 - Continuation)

November 5 and 6, 1987 meeting, Board of Trustees

REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)

THE OHIO STATE UNIVERSITY RESEARCH FOUNDATION (contd)

Federal Research Contracts/Grants (contd)

\$85,000.00 - Department of Health and Human Services, Public Health Service, Centers for Disease Control, Atlanta, Georgia, Demonstration Program in the Use of Calcium Fluoride in Fluoridating a Water System, Department of Civil Engineering (A. J. Rubin and R. C. Stiefel), 1 September 1987 through 31 August 1988. (Project 764820 - Continuation)

\$82,860.00 - National Science Foundation, Washington, D.C., Studies Involving Molecules and Intermediates of Theoretical Interest, Department of Chemistry (L. A. Paquette), 1 September 1987 through 31 August 1988. (Project 766349 - New)

\$80,000.00 - Department of Agriculture, Science and Education, Washington, D.C., Yolk Precursor Metabolism in Turkey Hens Differing in Growth Rate and Reproductive Efficiency, Department of Poultry Science-OARDC (W. L. Bacon, K. E. Nestor and D. N. Foster), 15 September 1987 through 30 September 1989. (Project 766365 - New)

\$79,884.00 - National Aeronautics and Space Administration, Lewis Research Center, Cleveland, Ohio, Effects of Ice Formation on 2-D Aerodynamic Shapes, Department of Aeronautical and Astronautical Engineering (M. B. Bragg and G. M. Gregorek), 1 November 1987 through 31 October 1988. (Project 762009 - Continuation)

\$78,100.00 - Department of Agriculture, Science and Education, Washington, D.C., Molecular Mechanisms of Geminivirus Replication, Biotechnology Programs and Department of Molecular Genetics (D. M. Bisaro) and Biotechnology Programs (P. E. Kolattukudy), 1 September 1987 through 31 August 1988. (Project 766350 - New)

\$77,188.00 - Department of Education, Office of Special Education and Rehabilitation Services, Washington, D.C., Training School Speech/Language Pathologists in an Educationally-Based Model, College of Education - Administration (T. M. Stephens) and Department of Human Services Education (W. A. Secord), 1 September 1987 through 31 August 1988. (Project 766389 - New)

\$76,900.00 - National Science Foundation, Washington, D.C., Cenozoic Micropaleontology and Biostratigraphy of the Victoria Land Basin, Byrd Polar Research Center and Department of Geology and Mineralogy (P. N. Webb), 1 May 1987 through 30 April 1988. (Project 765359 - Continuation)

\$75,853.00 - National Foundation of Arts and Humanities, National Endowment for the Humanities, Washington, D.C., "Art and Love in Dostoevsky and Tolstoy" National Endowment for the Humanities Summer Seminar for High School Teachers, Department of Slavic and East European Language and Literatures (F. R. Silbajoris), 1 October 1987 through 30 September 1988. (Project 766373 - New)

\$75,261.00 - National Science Foundation, Washington, D.C., Dynamic Safety Assessment of Passive Nuclear Reactor Features, Department of Mechanical Engineering (R. N. Christensen and T. Aldemir), 1 September 1987 through 28 February 1990. (Project 766353 - New)

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REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)

THE OHIO STATE UNIVERSITY RESEARCH FOUNDATION (contd)

Federal Research Contracts/Grants (contd)

\$74,704.00 - Department of Education, Office of Special Education and Rehabilitation Services, Washington, D.C., Development and Implementation of a Ph.D. Program in Special Education with Emphasis in Applied Behavior Analysis, Department of Human Services Education (W. L. Heward), 1 October 1987 through 30 September 1988. (Project 766390 - New)

\$73,000.00 - National Science Foundation, Washington, D.C., DNA Synthesis in Rice Endosperm, Department of Botany (V. Raghavan), 15 September 1987 through 14 September 1988. (Project 766364 - New)

\$72,926.00 - Department of Health and Human Services, Public Health Service, Alcohol, Drug Abuse, and Mental Health Administration, Rockville, Maryland, Muscarinic Receptor Abnormalities in Affective Illness, Department of Psychiatry (S. C. Dilsaver), 30 September 1987 through 31 July 1988. (Project 766385 - New)

\$71,490.00 - Department of Health and Human Services, Public Health Service, National Institutes of Health, Bethesda, Maryland, Parity and the Progression of Pain During Parturition, Department of Life Span Process (N. K. Lowe), 18 September 1987 through 17 September 1988. (Project 766384 - New)

\$66,660.00 - National Science Foundation, Washington, D.C., Engineering Research Equipment Grant: A Hypercube Multipressor for Real-Time Parallel Computation, Department of Electrical Engineering (F. E. Ozguner, D. E. Orin, C. A. Klein and J. M. Jagadeesh), 15 August 1987 through 31 January 1989. (Project 766344 - New)

\$66,381.00 - National Aeronautics and Space Administration, Langley Research Center, Cleveland, Ohio, Study of Powder Agglomeration in a Microgravity Experiment, Department of Ceramic Engineering (J. D. Gawley), 24 May 1988 through 23 May 1989. (Project 765777 - Continuation)

\$62,000.00 - Department of Energy, Pittsburgh Energy Technology Center, Pittsburgh, Pennsylvania, Extraction, Separation, and Analysis of High Sulfur Coal, Department of Chemistry, (S. V. Olesik and D. W. Meek), 13 August 1987 through 31 December 1989. (Project 766327 - New)

\$55,000.00 - Department of Agriculture, Science and Education, Washington, D.C., Role of α , α -trehalose in Rhizobium and the Rhizobium-legume symbiosis, Department of Agronomy-OARDC (J. G. Streeter), 1 September 1987 through 31 August 1988. (Project 766357 - New)

\$50,573.00 - National Foundation of Arts and Humanities, National Endowment for the Humanities, Washington, D.C., The Great Theorems of Mathematics, Department of Mathematics (J. C. Ferrar and W. W. Dunham), 1 October 1987 through 30 September 1988. (Project 766377 - New)

\$50,000.00 - Department of Agriculture, Science and Education, Washington, D.C., Mechanisms Regulating Nodulation Formation in Soybean,

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REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)

THE OHIO STATE UNIVERSITY RESEARCH FOUNDATION (contd)

Federal Research Contracts/Grants (contd)

Department of Agronomy-OARDC and Department of Agronomy (W. D. Bauer), 1 October 1987 through 30 September 1988. (Project 765653 - Continuation)

\$47,800.00 - National Science Foundation, Washington, D.C., Investigation of Comagmatic Complexes Using Isotope Systematics, Department of Geology and Mineralogy (K. A. Foland), 1 August 1987 through 31 January 1989. (Project 766348 - New)

\$45,732.00 - Department of the Air Force, Air Force Systems Command, Bolling Air Force Base, D.C., Strength and Structure of GA_{1-x} in x as Alloys, Department of Ceramic Engineering (K. T. Faber) and Department of Metallurgical Engineering (J. P. Hirth), 1 September 1987 through 31 August 1988. (Project 764977 - Continuation)

\$45,502.00 - Department of Health and Human Services, Public Health Service, National Institutes of Health, Bethesda, Maryland, The Ohio State University Advanced Glaucoma Intervention Study, Department of Ophthalmology (P. A. Weber), 1 September 1987 through 31 August 1988. (Project 766355 - New)

\$42,900.00 - Department of Health and Human Services, Public Health Service, National Institutes of Health, Bethesda, Maryland, Hypertension and Congestive Heart Failure: Genetic Model, Food Science and Nutrition-OARDC and Department of Food Science and Nutrition (S. A. McCune), 1 September 1987 through 30 November 1987. (Project 766383 - New)

\$34,107.00 - Department of Education, Office of Educational Research and Improvements, Washington, D.C., Using Research Knowledge to Improve Teacher Education Implementation of an Induction Program for Inquiring Professionals, Department of Educational Policy and Leadership (N. L. Zimpher), 1 October 1987 through 30 September 1988. (Project 765034 - Continuation)

\$34,000.00 - National Aeronautics and Space Administration, Lewis Research Center, Cleveland, Ohio, An Experimental Study of Shock-Boundary Layer Interaction in Hypersonic Flow, Department of Aeronautical and Astronautical Engineering (J. D. Lee and M. B. Bragg), 1 September 1987 through 30 November 1987. (Project 765240 - Continuation)

\$30,996.00 - Department of Health and Human Services, Public Health Service, National Institutes of Health, Bethesda, Maryland, Pathogenesis of Humoral Hypercalcemia of Malignancy, Department of Veterinary Pathobiology (T. J. Rosol), 1 October 1987 through 30 September 1988. (Project 765055 - Continuation)

\$28,000.00 - National Security Council, Central Intelligence Agency, Washington, D.C., LDC Energy Data Base Collection, Agricultural Economics and Rural Sociology-OARDC and Department of Agricultural Economics and Rural Sociology (J. Havlicek, Jr.) and Department of Agricultural Economics and Rural Sociology (W. S. Chern), 1 August 1987 through 30 September 1988. (Project 766381 - New)

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REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)

THE OHIO STATE UNIVERSITY RESEARCH FOUNDATION (contd)

Federal Research Contracts/Grants (contd)

\$27,345.00 - National Science Foundation, Washington, D.C., DNA Mismatch Repair and DNA Methylation in Plants, Biotechnology Program and Department of Genetics (D. M. Bisaro) and Biotechnology Program (P. E. Kolattukudy), 1 September 1987 through 31 December 1987. (Project 766388 - New)

\$24,996.00 - Department of Health and Human Services, Public Health Service, National Institutes of Health, Bethesda, Maryland, Regulation of Metamorphic Myogenesis and Myolysis, Department of Oral Biology (B. M. Rosenthal), 5 September 1987 through 1 September 1988. (Project 766368 - New)

\$20,000.00 - Department of Agriculture, Science and Education, Washington, D.C., Effects of Acid Precipitation on Soil-Inhabiting Invertebrates in Corn Systems, Department of Entomology-OARDC (B. R. Stinner), 1 September 1987 through 31 August 1989. (Project 766361 - New)

\$20,000.00 - National Aeronautics and Space Administration, Langley Research Center, Hampton, Virginia, Wind Tunnel Tests of Transonic Natural Laminar Flow Airfoils, Department of Aeronautical and Astronautical Engineering (G. M. Gregorek and M. B. Bragg), 1 October 1987 through 31 March 1988. (Project 765327 - New)

\$16,648.00 - Department of Health and Human Services, Public Health Service, National Institutes of Health, Bethesda, Maryland, MARC Predoctoral Fellowship, Department of Microbiology and Immunology (C. C. Whitacre), 1 September 1987 through 31 August 1988. (Project 766363 - New)

\$16,000.00 - National Science Foundation, Washington, D.C., Acquisition of a Liquid Scintillation Counting System, Department of Botany (V. Raghavan, M. L. Evans, M. G. Cline and R. P. Hangarter), 15 September 1987 through 31 August 1988. (Project 766342 - New)

\$14,300.00 - Department of Agriculture, Forest Service, Broomall, Pennsylvania, Elucidation of Chemical Structure of Antibiotics Produced by Bacillus subtilis, Department of Chemistry (H. C. Floss and J. Beale), 1 October 1987 through 30 June 1988. (Project 766382 - New)

\$12,000.00 - Department of Agriculture, Science and Education, Beltsville, Maryland, Genetic and Physiological Basis for Resistance of Elms to the Elm Leaf Beetle, Department of Entomology (R. W. Hall), 1 August 1987 through 31 July 1989. (Project 766343 - New)

\$10,000.00 - Tennessee Valley Authority, Muscle Shoals, Alabama, The Chemistry and Bioavailability of Phosphorus in Excessively Fertilized Soils, Department of Agronomy-OARDC and Department of Agronomy (T. J. Logan), 1 September 1987 through 31 August 1990. (Project 766358 - New)

\$7,586.00 - Department of Agriculture, Forest Service, Broomall, Pennsylvania, Juvenile Hormones and Hormone Regulators in the Development

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REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)

THE OHIO STATE UNIVERSITY RESEARCH FOUNDATION (contd)

Federal Research Contracts/Grants (contd)

of the Gypsy Moth, Department of Entomology (D. L. Denlinger), 1 September 1988 through 31 December 1988. (Project 765658 - Continuation)

\$5,537.00 - National Occupational Information Coordinating Committee, Washington, D.C., Updating Courses of Career, Occupational, and Labor Market Information Directory, The National Center for Research in Vocational Education (R. D. Ryan, Jr.), 1 August 1987 through 31 December 1987. (Project 766371 - New)

\$4,501.00 - National Science Foundation, Washington, D.C., Paleobotany in Antarctica: Paleozoic and Mesozoic, Byrd Polar Research Center (E. L. Taylor) and Byrd Polar Research Center and Department of Botany (T. N. Taylor), 1 November 1987 through 30 April 1988. (Project 765819 - Continuation)

\$4,290.00 - Department of Health and Human Services, Public Health Service, National Institutes of Health, Bethesda, Maryland, Regulation of Gene Expression in Neurospora, Department of Biochemistry (G. A. Marzluf), 1 January 1987 through 31 December 1987. (Project 760578 - Continuation)

\$2,553.00 - Department of Transportation, National Highway Traffic Safety Administration, East Liberty, Ohio, Load Distribution Measurement, Department of Mechanical Engineering (H. R. Busby), 1 October 1987 through 31 December 1987. (Project 763873 - Continuation)

\$2,145.00 - Department of Transportation, National Highway Traffic Safety Administration, East Liberty, Ohio, Rear Seat Submarining Investigation Test Matrix Design, Department of Statistics (P. K. Goel), 1 September 1987 through 30 September 1987. (Project 766023 - Continuation)

Personnel Services - Department of Commerce, National Oceanic and Atmospheric Administration, Rockville, Maryland, Geodetic Advisor for the State of Ohio, Center for Mapping (J. D. Bossler), 1 July 1987 through 30 June 1988. (Project 766340 - New) (Approximate Dollar Value - \$37,500)

TOTAL - FEDERAL AWARDS

\$ 5,634,692.00

State of Ohio Research Contracts/Grants

\$327,243.00 - State of Ohio, Bureau of Employment Services, Columbus, Ohio, Follow-up Survey of Title IIA and Title III JTP Ohio Clients and Employers, The National Center for Research in Vocational Education (R. D. Ryan, Jr.), 1 July 1987 through 31 October 1988. (Project 765772 - Continuation)

\$135,000.00 - State of Ohio, Department of Development, Columbus, Ohio, Regional Labor-Management Cooperation Center, Academic Faculty of Management and Human Resources (D. B. Patton, H. R. Bobbitt and W. D. Todor), 1 July 1987 through 30 June 1988. (Project 766277 - Continuation)

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REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)

THE OHIO STATE UNIVERSITY RESEARCH FOUNDATION (contd)

State of Ohio Research Contracts/Grants (contd)

\$122,923.00 - State of Ohio, Department of Education, Columbus, Ohio, Ohio Entrepreneurs Research Project, The National Center for Research in Vocational Education (R. D. Ryan, Jr.), 1 July 1987 through 30 June 1988. (Project 766375 - New)

\$19,800.00 - State of Ohio, Department of Development, Columbus, Ohio, Society Against Felony Encounters, University Police (L. Johnson), 1 July 1987 through 30 June 1988. (Project 765937 - Continuation)

\$17,875.00 - State of Ohio, Department of Transportation, Columbus, Ohio, Geodetic Advisor for the State of Ohio, Center for Mapping (J. D. Bossler), 1 July 1987 through 30 June 1988. (Project 766352 - New)

\$9,552.00 - State of Ohio, Legislative Service Commission, Columbus, Ohio, Communication Disorders Study, Department of Communication (L. G. Wall), 21 July 1987 through 22 July 1988. (Project 766351 - New)

\$7,490.00 - State of Ohio, Ohio Arts Council, Columbus, Ohio, Support for the 1987-88 Mershon Auditorium Performance Season, Mershon Auditorium (T. M. Vanleer), 1 October 1987 through 1 May 1988. (Project 766367 - New)

Total - STATE OF OHIO AWARDS \$ 639,883.00

Industrial Research Contracts/Grants

\$379,334.00 - American Electric Power Service Corporation, Lancaster, Ohio, Reclamation of Calcareous Coal Spoils with Trees, Shrubs and Forages, Department of Natural Resources-OARDC (J. H. Brown, D. B. Houston, M. M. Larson and J. P. Vimmerstedt), 1 September 1987 through 31 October 1992. (Project 766333 - New)

\$99,583.00 - Sandia Corporation, Albuquerque, New Mexico, Unsteady Pressure Measurements on Wind Turbine Models, Department of Aeronautical and Astronautical Engineering (G. M. Gregorek), 28 August 1987 through 27 August 1988. (Project 766354 - Continuation)

\$76,961.00 - Alcoa Defense Systems, Inc., San Diego, California, Advanced Antennas for Future Air Vehicles, Department of Electrical Engineering, ElectroScience Laboratory (B. A. Munk), 1 July 1987 through 30 September 1987. (Project 766329 - New)

\$54,796.00 - Boeing Company, Seattle, Washington, Statement of Work for the Yee-Surface, Department of Electrical Engineering, ElectroScience Laboratory (B. A. Munk), 1 July 1987 through 30 June 1988. (Project 766332 - New)

\$37,119.00 - Garrett Turbine Engine Company, Phoenix, Arizona, The Solubilities of Oxides in Fused Salt Melts, Department of Metallurgical Engineering (R. A. Rapp and G. R. St. Pierre), 1 March 1987 through 28 February 1988. (Project 766038 - New)

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REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)

THE OHIO STATE UNIVERSITY RESEARCH FOUNDATION (contd)

Industrial Research Contracts/Grants (contd)

\$32,175.00 - G. D. Searle and Company, Skokie, Illinois, Phase II Study of Carbetimer in Advanced Renal Cell Carcinoma, Department of Internal Medicine (S. P. Balcerzak), 1 August 1987 through 31 July 1988. (Project 766359 - New)

\$30,741.00 - Defense Systems, Inc., McLean, Virginia, Content Analysis Applications to Foreign Intelligence Topics, Mershon Center for Education (M. G. Hermann), 1 September 1987 through 31 May 1988. (Project 766374 - Continuation)

\$8,530.00 - DeVry Institute of Technology, Columbus, Ohio, Student Personnel in Higher Education, Department of Educational Policy and Leadership (R. F. Rodgers), 21 September 1987 through 31 May 1988. (Project 766347 - Continuation)

\$7,650.00 - Texas Eastern Gas Pipeline Company, Houston, Texas, Species Composition and Distribution of Unionid Mollusks in the Muskingum River in the Vicinity of Stone, Muskingum County, Ohio, Department of Zoology (D. H. Stansbery), 15 September 1987 through 15 November 1987. (Project 766376 - New)

\$3,851.00 - CIBA-GEIGY Corporation, Greensboro, North Carolina, Evaluation of Candidate Materials for the Control of Ectoparasitic Insects, Department of Entomology (W. F. Hink), 1 June 1987 through 1 November 1987. (Project 766087 - Continuation)

Total - INDUSTRIAL AWARDS \$ 730,740.00

Other Non-Federal Research Contracts/Grants

\$1,805,500.00 - National Association of Regulatory Utility Commissioners, Washington, D.C., The Research and Assistance Plan and Budget for the National Regulatory Research Institute: The Business Plan for FY 1988, National Regulatory Research Institute (D. N. Jones), 1 September 1987 through 31 August 1988. (Project 763289 - Continuation)

\$347,842.50 - American Institute of Indian Studies, Minneapolis, Minnesota, American Institute of Indian Studies Center for Art and Archaeology, Department of History of Art (S. L. Huntington), 1 July 1987 through 30 June 1988. (Project 766037 - Continuation)

\$90,278.00 - Indonesia Government, Jakarta, Indonesia, Indonesian Visiting Scholar Program, College of Education - Administration (J. J. Buffer), 15 September 1987 through 15 April 1988. (Project 765362 - Continuation)

\$60,064.00 - Indiana University, Bloomington, Indiana, Psychology Instruction in Malaysia, Marion Campus and Department of Psychology (D. J. Christie), 1 August 1987 through 31 July 1988. (Project 764972 - Continuation)

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REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)

THE OHIO STATE UNIVERSITY RESEARCH FOUNDATION (contd)

Other Non-Federal Research Contracts/Grants (contd)

\$60,000.00 - American Cancer Society, Ohio Division, Inc., Dublin, Ohio, Application for a Grant to Help Create an American Cancer Society Professorship of Clinical Oncology, Department of Surgery (J. P. Minton), 1 July 1987 through 30 June 1989. (Project 761833 - Continuation)

\$50,000.00 - Gas Research Institute, Chicago, Illinois, Center for Commercialization of Space Membership Agreement, Center for Mapping (J. D. Bossler), 1 May 1987 through 30 April 1989. (Project 766219 - Continuation)

\$46,241.00 - Smokeless Tobacco Research Council, Inc., New York, New York, Effects of Smokeless Tobacco on the Development of the CD-1 Mouse Fetus, Department of Oral Biology (R. B. Paulson), 1 January 1988 through 31 December 1988. (Project 765092 - Continuation)

\$45,980.08 - Medical College of Ohio, Toledo, Ohio, Agronomic Effectiveness of Kiln-Dust Stabilized Municipal Sewage Sludge, Department of Agronomy-OARDC and Department of Agronomy (T. J. Logan), 15 March 1987 through 14 March 1989. (Project 766198 - New)

\$25,000.00 - Columbus Zoo, Powell, Ohio, Cooperative Grants Program - The Columbus Zoo and The Ohio State University, Department of Psychology (G. G. Berntson), Department of Veterinary Pathobiology (J. R. Blakeslee and M. J. Tarr), Department of Zoology (J. D. Harder), Department of Food Science and Nutrition-OARDC and Department of Food Science and Nutrition (E. R. Richter), and Department of Veterinary Clinical Science (W. R. Threlfall), 1 September 1987 through 31 August 1988. (Project 766337 - Continuation)

\$19,470.00 - Morris Animal Foundation, Englewood, Colorado, Use of Rocaltrol (Calcitriol) and Aluminum Free Phosphate Binders in Prevention and Control of Renal Secondary Hyperparathyroidism, Department of Veterinary Pathobiology (L. A. Nagode), 1 September 1987 through 31 August 1988. (Project 766338 - New)

\$14,000.00 - Eight Members of the National Alliance of Community and Technical Colleges, National Alliance of Community and Technical Colleges, The National Center for Research in Vocational Education (R. D. Ryan, Jr.), 1 July 1987 through 30 June 1988. (Project 766171 - Continuation)

\$13,349.00 - Ohio Dominican College, Columbus, Ohio, Student Personnel in Higher Education, Department of Educational Policy and Leadership (R. F. Rodgers), 15 August 1987 through 15 May 1988. (Project 766334 - Continuation)

\$10,720.00 - Muskingum County Board of Mental Retardation and Developmental Disabilities, Zanesville, Ohio, Graduate Research Associate Internship Training, Nisonger Center (S. R. Schroeder), 1 September 1987 through 31 August 1988. (Project 766360 - New)

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REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)

THE OHIO STATE UNIVERSITY RESEARCH FOUNDATION (contd)

Other Non-Federal Research Contracts/Grants (contd)

\$6,450.00 - University of Pittsburgh, Pittsburgh, Pennsylvania, NSABP Colo-Rectal Protocols, Department of Surgery (W. B. Farrar), 1 April 1987 through 31 January 1988. (Project 763581 - Continuation)

\$5,000.00 - American Society of Hospital Pharmacists, Bethesda, Maryland, Impact of Medication Counseling by Pharmacists in the Veterans Administration Setting, College of Pharmacy (R. Segal), 1 October 1987 through 30 September 1988. (Project 766339 - New)

\$5,000.00 - American Society of Hospital Pharmacists Research and Education Foundation, Inc., Bethesda, Maryland, Quality Assurance for a Clinical Pharmacy Patient Education Program on Pain Management, University Hospital (J. Siegel), 1 October 1987 through 30 September 1988. (Project 766391 - New)

\$4,450.00 - Cancer Therapy and Research Foundation of South Texas, San Antonio, Texas, Central Office for the Developmental Biologicals Committee Activities of the Community Clinical Oncology Programs, Department of Internal Medicine (J. J. Rinehart), 1 June 1987 through 31 May 1988. (Project 765841 - Continuation)

\$3,785.00 - North Atlantic Treaty Organization, Brussels, Belgium, Pipeline Transport of Viscous Crudes as Oil-In-Water Emulsions, Department of Chemical Engineering (J. L. Zakin), 31 August 1987 through 31 August 1989. (Project 764334 - Continuation)

\$3,760.00 - Arthritis Foundation - Central Ohio Chapter, Columbus, Ohio, Immunoregulation and Autoimmunity, Department of Internal Medicine (R. L. Whisler), 1 April 1987 through 31 March 1988. (Project 760620 - Continuation)

\$2,575.68 - Healthcare Financial Management Association, Oak Brook, Illinois, The Development of a Financial Service for the Hospital Industry, Hospital and Health Services Administration (W. O. Cleverley), 1 July 1986 through 30 June 1987. (Project 761794 - Continuation)

TOTAL - OTHER NON-FEDERAL AWARDS **\$ 2,619,465.26**

ENGINEERING EXPERIMENT STATION

Industrial and Other Sponsored Research and Development

\$124,607.00 - General Electric, Cincinnati, OH, "Plasma Arc Tunnel System," Department of Aeronautical and Astronautical Engineering, 9 September 1987 through 18 December 1987. (312432)

\$99,798.00 - Edicon, Rochester, NY, "Research and Development of Images System for Recognition of Fingerprints," Department of Welding Engineering, 1 October 1987 through 30 September 1988. (529740)

\$46,588.00 - from 40 sponsors of 57 development projects under the direction of two research areas of the College of Engineering.

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REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)

ENGINEERING EXPERIMENT STATION (contd)

Industrial and Other Sponsored Research and Development (contd)

\$40,000.00 - second year funding of memberships to the Compact Range Consortium, Department of Electrical Engineering, 1 July 1987 through 30 June 1988. (312884)

\$20,000.00 - Amoco Foundation, "Amoco Foundation Equipment Grant," Department of Chemical Engineering, 1 September 1987 through 30 June 1988. (529739)

\$6,500.00 - Additional funding from General Electric, Cincinnati, Ohio, "GE 36 Product Fan Blade Ice Accumulation Predictions," Department of Aeronautical and Astronautical Engineering, 15 May 1987 through 31 December 1987. (312415, Ext. 1)

TOTAL - INDUSTRIAL AND OTHER SPONSORED RESEARCH \$ 337,493.00

THE OHIO STATE UNIVERSITY DEVELOPMENT FUND

Establishment of Named Funds

The Steve & Sarah O'Donnell Fund for University Systems

The Steve & Sarah O'Donnell Fund for University Systems was established November 6, 1987, by the Board of Trustees of The Ohio State University with gifts to The Ohio State University Development Fund from Steve O'Donnell (B.E.E. '62, M.S. Electrical Engineering '63) and Sarah E. O'Donnell of Westerville, Ohio.

All gifts are to be invested in the University's Permanent Endowment Fund, under the rules and regulations adopted by the Board of Trustees of The Ohio State University, with the right to invest and reinvest as occasion dictates.

The annual income shall be used to provide awards to University Systems employees who have shown excellence in some phase of our data processing activities; to acquire computing facilities for innovative tasks or inquiries; and/or provide specialized education opportunities for emerging or state-of-the-art computing techniques. Expenditures from the fund will be authorized by the Assistant Vice President, University Systems.

It is the desire of the donor that this fund should benefit the University in perpetuity. If the need for this fund should cease to exist or so diminish as to provide unused income, then another use shall be designated by the Board of Trustees, with preference being given to the recommendations from the appropriate administrative official of the University who is then directly responsible for administrative data processing.

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REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)

THE OHIO STATE UNIVERSITY DEVELOPMENT FUND (contd)

Establishment of Named Funds (contd)

The M.D./Ph.D Endowment in the College of Medicine

The M.D./Ph.D. Endowment in the College of Medicine was established November 6, 1987, by the Board of Trustees of The Ohio State University, with gifts to The Ohio State University Development Fund from the estate of Marguerite Kakalecik, Mt. Vernon, Ohio, in memory of her uncles, Albert and William Wilmotte.

All gifts are to be invested in the University's Permanent Endowment Fund under the rules and regulations adopted by the Board of Trustees of The Ohio State University, with the right to invest and reinvest as occasion dictates.

The annual income shall be used to provide research scholarships for students enrolled in the College of Medicine at The Ohio State University. Scholarship recipients will be chosen by the University Committee on Student Financial Aid in consultation with the Dean of the College of Medicine.

It is the desire of the donor that this fund should benefit the University in perpetuity. If the need for this fund should cease to exist or so diminish as to provide unused income, then another use shall be designated by the Board of Trustees, in consultation with the appropriate administrative official of the College of Medicine, in order to carry out the desire of the donor.

The Elmer S. Bowers Scholarship Fund

The Elmer S. Bowers Scholarship Fund was established November 6, 1987, by the Board of Trustees of The Ohio State University with gifts to The Ohio State University Development Fund from the estate of Elmer S. Bowers (B.A. '25, M.A. Psychology '25).

All gifts are to be invested in the University's Permanent Endowment Fund, under the rules and regulations adopted by the Board of Trustees of The Ohio State University, with the right to invest and reinvest as occasion dictates.

The annual income shall be used to provide scholarship assistance to incoming freshmen or enrolled students who rank academically in the top twenty percent of their class. Selection of the award recipients shall be made by the University Committee on Student Financial Aid.

It is the desire of the donor that this fund should benefit the University in perpetuity. If the need for this fund should cease to exist or so diminish as to provide unused income, then another use shall be designated by the Board of Trustees, in consultation with the appropriate administrative official responsible for student financial aid.

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REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)

THE OHIO STATE UNIVERSITY DEVELOPMENT FUND (contd)

Establishment of Named Funds (contd)

Helen C. Clabaugh Scholarship Fund

The Helen C. Clabaugh Scholarship Fund was established November 6, 1987, by the Board of Trustees of The Ohio State University with gifts from Helen C. Clabaugh (B.S.H.E. '24).

All gifts are to be invested in the University's Permanent Endowment Fund under the rules and regulations adopted by the Board of Trustees, with the right to invest and reinvest as occasion dictates.

The annual income shall be used to establish one or more scholarships for students in the College of Home Economics for the study of medical and therapeutic dietetics. The recipients shall be selected on the basis of academic achievement. Selection shall be made each year by an appointee of the Dean of the College of Home Economics in consultation with the University Committee on Student Financial Aid and the Department of Human Nutrition and Food Management.

It is the desire of the donor that this fund should benefit the University in perpetuity. If the need for this fund should cease to exist or so diminish as to provide unused income, then another use shall be designated by the Board of Trustees, in consultation with the appropriate administrative officials of the University who are then directly responsible for instruction in Human Nutrition, in order to carry out the desire of the donor.

**The Simon H. Leister Engineering Scholarship
and Grant-in-Aid Fund**

The Simon H. Leister Engineering Scholarship and Grant-in-Aid Fund was established November 6, 1987, by the Board of Trustees of The Ohio State University with a bequest to The Ohio State University from Mildred M. McGormley of Toledo, Ohio.

All gifts are to be invested in the University's Permanent Endowment Fund, under the rules and regulations adopted by the Board of Trustees of The Ohio State University, with the right to invest and reinvest as occasion dictates.

The annual income shall be used to provide scholarships and/or grants-in-aid to deserving engineering students. The Dean of the College of Engineering will have sole authority to authorize expenditures from the income. Moreover, said Dean will be authorized to invade the fund's principal whenever necessary to assure maximum benefit for deserving engineering students.

It is the desire of the donor that this fund should benefit the University in perpetuity. If the need for this fund should cease to exist or so diminish as to provide unused income, then another use shall be designated by the Board of Trustees, with preference being given to the recommendations from the appropriate administrative official of the University who is then directly responsible for engineering education.

November 5 and 6, 1987 meeting, Board of Trustees

REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)

THE OHIO STATE UNIVERSITY DEVELOPMENT FUND (contd)

Establishment of Named Funds (contd)

Luther M. Keith Lectureship in Surgery

The Luther M. Keith Lectureship in Surgery was established November 6, 1987, by the Board of Trustees of The Ohio State University with gifts from family, friends and colleagues of Dr. Luther M. Keith.

All gifts are to be invested in the University's Permanent Endowment Fund under the rules and regulations adopted by the Board of Trustees of The Ohio State University, with the right to invest and reinvest as occasion dictates.

The annual income shall be used to underwrite the cost of an annual lecturer in the College of Medicine on a subject related to surgery. The selection of the lecturer is to be made upon the recommendation of the Chairperson of the Department of Surgery, in cooperation with the Dean of the College of Medicine.

It is the desire of the donors that this fund should benefit the University in perpetuity. If the need for this fund should cease to exist or so diminish as to provide unused income, then another use shall be designated by the Board of Trustees, in consultation with the appropriate administrative official of the College of Medicine, in order to carry out the desire of the donors.

Edna and R. George Jaap Scholarship Fund

The Edna and R. George Jaap Scholarship Fund was established November 6, 1987, by the Trustees of The Ohio State University with gifts to The Ohio State University Development Fund from R. George and Edna Jaap, Columbus, Ohio, and friends of the University.

All gifts are to be invested in the University's Permanent Endowment Fund under the rules and regulations adopted by the Board of Trustees of The Ohio State University, with the right to invest and reinvest as occasion dictates.

The annual income shall be used to fund one or more scholarships for students in the College of Agriculture with preference being given to those students enrolled in the Department of Poultry Science. Criteria for the scholarships shall include academic achievement, leadership in extracurricular activities and financial need. Scholarship recipients shall be selected by a committee consisting of the Assistant Dean for Student Affairs in the College of Agriculture and appropriate faculty representation from Poultry Science, in consultation with the University Committee on Student Financial Aid.

It is the desire of the donors that this fund should benefit the University in perpetuity. If the need for this fund should cease to exist or so diminish as to provide unused income, then another use shall be designated by the Board of Trustees, in consultation with the appropriate administrative official of the College of Agriculture, in order to carry out the desire of the donors.

November 5 and 6, 1987 meeting, Board of Trustees

REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)

THE OHIO STATE UNIVERSITY DEVELOPMENT FUND (contd)

Change of Name and Description of Named Fund

Lois E. Dickey and Esther A. Meacham Endowment

The Lois E. Dickey Endowment was established July 12, 1985, by the Board of Trustees of The Ohio State University Development Fund with gifts from the friends, colleagues, students and family of Lois E. Dickey and was merged November 6, 1987, with gifts from friends, colleagues, students and family of Esther A. Meacham.

All gifts are to be invested in the University's Permanent Endowment Fund under the rules and regulations adopted by the Board of Trustees of The Ohio State University, with the right to invest and reinvest as occasion dictates.

The annual income is to be used to fund one or more awards in support of graduate student research in the Department of Textiles and Clothing in the College of Home Economics. Selection of the recipient of the award will be made by the graduate faculty of the Department of Textiles and Clothing with preference given to applicants who are international students. The award will be made by the Dean of the College of Home Economics based upon the recommendation of the Graduate Faculty of the Department of Textiles and Clothing.

Should the need for this fund cease to exist or so diminish as to provide unused income, then the income may be used for any purpose whatsoever as determined by the Board of Trustees, with preference being given to recommendations from the Chair of the Department of Textiles and Clothing and the Dean of the College of Home Economics.

Change in Description of Named Funds

Roy E. Roeder Memorial Scholarship Fund

The Roy E. Roeder Memorial Scholarship Fund was established July 6, 1984, by the Board of Trustees of The Ohio State University with gifts to The Ohio State University Development Fund from Mr. Eugene M. White (B.S.Bus.Adm. '54) and Mrs. Marjorie L. (Roeder) White (B.S.Ed. '58) daughter of Mr. Roeder. The description was changed November 6, 1987.

All gifts are to be invested in the University's Permanent Endowment Fund under the rules and regulations adopted by the Board of Trustees of The Ohio State University, with the right to invest and reinvest as occasion dictates.

The annual income shall be used to provide one or more scholarships for students enrolled at The Ohio State University Lima Campus who are graduates of Bath High School located in Allen County in Ohio. If there are no qualified applicants during a given year, the income for that period will be added to the principal. The selection of the recipient shall be made by the dean and director or his designee at The Ohio State University Lima Campus, in consultation with the University Committee on Student Financial Aid.

November 5 and 6, 1987 meeting, Board of Trustees

REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)

THE OHIO STATE UNIVERSITY DEVELOPMENT FUND (contd)

Change in Description of Named Funds (contd)

Roy E. Roeder Memorial Scholarship Fund (contd)

Should the need for this fund cease to exist or so diminish as to provide unused income, then the fund may be used for any purpose whatsoever as determined by the Board of Trustees, with preference being given to recommendations from the appropriate administrative official of the University who is then directly responsible for student financial aid at The Ohio State University Lima Campus.

Zelma L. Roeder Memorial Scholarship Fund

The Zelma L. Roeder Memorial Scholarship Fund was established July 6, 1984, by the Board of Trustees of The Ohio State University with gifts to The Ohio State University Development Fund from Mr. Eugene M. White (B.S.Bus.Adm. '54) and Mrs. Marjorie L. (Roeder) White (B.S.Ed. '58) daughter of Mrs. Roeder. The description was changed November 6, 1987.

All gifts are to be invested in the University's Permanent Endowment Fund under the rules and regulations adopted by the Board of Trustees of The Ohio State University, with the right to invest and reinvest as occasion dictates.

The annual income shall be used to provide one or more scholarships for students enrolled at The Ohio State University Lima Campus who continue active participation, including performance, in music activities at The Ohio State University Lima Campus. If in the future The Ohio State University Lima Campus obtains a music major or music minor program, the recipient shall be so enrolled in that program with first preference given to students of keyboard instruments. If there are no qualified applicants during a given year, the income for that period will be added to the principal. The selection of the recipient shall be made by the dean and director or his designee at The Ohio State University Lima Campus, in consultation with the University Committee on Student Financial Aid.

Should the need for this fund cease to exist or so diminish as to provide unused income, then the fund may be used for any purpose whatsoever as determined by the Board of Trustees, with preference being given to recommendations from the appropriate administrative official of the University who is then directly responsible for music education at The Ohio State University Lima Campus.

THE OHIO STATE UNIVERSITY FOUNDATION

Approval of Description and Establishment of Funds

Shih-Yuan Michael Chen, Ph.D., Scholarship Fund

The Shih-Yuan Michael Chen, Ph.D., Scholarship Fund was established November 6, 1987, by the Board of Trustees of The Ohio State University through funds received by the University from The Ohio State University

November 5 and 6, 1987 meeting, Board of Trustees

REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)

THE OHIO STATE UNIVERSITY FOUNDATION (contd)

Approval of Description and Establishment of Funds (contd)

Shih-Yuan Michael Chen, Ph.D., Scholarship Fund (contd)

Foundation, which has established an endowed fund with gifts designated for The Ohio State University College of Engineering.

Income provided by the Foundation shall be used to provide one or more scholarships to students enrolled in the College of Engineering who are from Nanjing Institute of Technology, China. If there are no applicants from Nanjing Institute of Technology, then the scholarship(s) shall be awarded to engineering students from mainland China or, if none apply, to Chinese-American students enrolled in the College of Engineering. Scholarship recipients will be chosen by the Dean of the College of Engineering in consultation with the University Committee on Student Financial Aid.

The Community Mutual Blue Cross/Blue Shield Fund

The Community Mutual Blue Cross/Blue Shield Fund was established November 6, 1987, by the Board of Trustees of The Ohio State University through funds received by the University from The Ohio State University Foundation, which has established an endowed fund with gifts designated for The Ohio State University College of Business from Community Mutual Blue Cross/Blue Shield in honor of Michael J. Ketchum.

Income provided by the Foundation shall be used to further the academic program of insurance and risk analysis in the College of Business by providing support for distinguished lectures, seminars, programs and related academic research on important public policy issues of concern to the insurance industry. Use of the funds will be determined by the academic faculty of insurance and risk with the concurrence of the chairperson of the faculty of Finance.

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**EMPLOYMENT OF ARCHITECT
FOOD SERVICE FACILITIES FOR FIVE DINING COMMONS
(NORTH, RANEY, BAKER, KENNEDY, AND MORRILL COMMONS)**

Resolution No. 88-48

Synopsis: Authorization to employ an architectural firm and food service consultant is proposed.

WHEREAS Residence and Dining Halls is proposing to update and remodel the food service facilities to care for these needs beyond the year 2000; and

WHEREAS it is desirable to have a master plan, budget, and a detailed program of requirements for construction for this project; and

November 5 and 6, 1987 meeting, Board of Trustees

**EMPLOYMENT OF ARCHITECT
FOOD SERVICE FACILITIES FOR FIVE DINING COMMONS
(NORTH, RANEY, BAKER, KENNEDY, AND MORRILL COMMONS) (contd)**

WHEREAS funds will be made available from Residence and Dining Halls for these services:

NOW THEREFORE

BE IT RESOLVED, That the President and/or Vice President for Business and Administration be authorized to select a qualified architectural consulting firm to perform master planning, budgeting and programming services for this project in conjunction with the Department of Administrative Services and that the fees for this service be negotiated between the firm selected and the Department of Administrative Services, Division of Public Works.

Upon motion of Ms. Casto, seconded by Mr. Teaford, the Board of Trustees adopted the foregoing resolution by unanimous roll call vote.

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**EMPLOYMENT OF ARCHITECT/ENGINEER AND
REQUEST FOR CONSTRUCTION BIDS
LAW BUILDING - ADDITION/RENOVATION**

Resolution No. 88-49

Synopsis: Authorization to employ an architectural/engineering firm and request construction bids is proposed.

WHEREAS the student body and faculty of the College of Law have greatly increased in the thirty years that the present building has been occupied; and

WHEREAS renovation, remodeling, and expansion of the present building will provide approximately 60,000 square feet of library facilities, including space for book shelving and study stations, offices, instructional space designed to use new techniques in teaching specific skills, student activities space, and placement office space; and

WHEREAS funds in the amount of \$14,500,000.00 have been allocated to this project, of which \$7,000,000.00 will be provided from University funds and \$7,500,000.00 will be provided from 1989-90 biennial capital appropriation funds for improvements for higher education:

NOW THEREFORE

BE IT RESOLVED, That the President and/or the Vice President for Business and Administration be authorized to select a qualified architectural/engineering firm for this project in conjunction with the Department of Administrative Services, and that the fees for this service be negotiated between the firm selected and the Department of Administrative Services, Division of Public Works; and

BE IT FURTHER RESOLVED, That the President and/or the Vice President for Business and Administration be authorized to request construction bids on

November 5 and 6, 1987 meeting, Board of Trustees

**EMPLOYMENT OF ARCHITECT/ENGINEER AND
REQUEST FOR CONSTRUCTION BIDS
LAW BUILDING - ADDITION/RENOVATION (contd)**

this project in accordance with established University procedures, and if satisfactory bids are received, to recommend to the Department of Administrative Services, Division of Public Works, the award of contracts with all actions to be reported to this Board at the appropriate time.

Upon motion of Mr. Teaford, seconded by Ms. Casto, the Board of Trustees adopted the foregoing resolution by unanimous roll call vote.

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**EMPLOYMENT OF ARCHITECT/ENGINEER AND
REQUEST FOR CONSTRUCTION BIDS
DODD HALL INTERFACE**

Resolution No. 88-50

Synopsis: Authorization to employ an architectural/engineering firm and request construction bids is proposed.

WHEREAS with the completion of the William H. Davis Medical Center (Ohio Arthritis/Geriatric Centers) it became necessary to upgrade the first and second floors of Dodd Hall to bring them into aesthetic concert with the new Center; and

WHEREAS this project provides for the improvements to the first and second floors of Dodd Hall which will integrate the activities of Dodd Hall and the Davis Medical Center; and

WHEREAS \$1,496,845.00 will be made available for this project from University Hospitals funds, of which \$1,282,424.00 is estimated for construction;

NOW THEREFORE

BE IT RESOLVED, That the President and/or the Vice President for Business and Administration be authorized, in accordance with established University procedures, to select a qualified architectural/engineering firm for this project, to request construction bids on this project, and if satisfactory bids are received, to award the necessary contracts, with all actions to be reported to this Board at the appropriate time.

Upon motion of Mrs. Bowser, seconded by Ms. Casto, the Board of Trustees adopted the foregoing resolution by unanimous roll call vote.

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**REQUEST FOR CONSTRUCTION BIDS AND
ESTIMATE OF COST - FUNDING**

Resolution No. 88-51

Synopsis: Authorization to request construction bids is proposed.

November 5 and 6, 1987 meeting, Board of Trustees

**REQUEST FOR CONSTRUCTION BIDS AND
ESTIMATE OF COST - FUNDING (contd)**

WHEREAS the plans and specifications for these projects have been completed and, at the request of the Vice President for Business and Administration, the President recommended that the Board of Trustees authorize the request for construction bids:

DODD HALL - HVAC SYSTEM MODIFICATIONS

Project: Modify and upgrade the HVAC system to provide a new four pipe fan coil system for patient comfort and health through improved air quality, dust control and ventilation.

Funding: University Hospitals Funds

Estimated Construction Cost: \$663,600.00

Estimated Project Cost: \$767,780.00

**RHODES HALL 5TH FLOOR
PASTORAL CARE REMODELING**

Project: Relocate an air handler in the fifth floor mechanical room to allow for construction of Pastoral Care offices adjacent to the Atrium Chapel, and the construction of rest room facilities contiguous with elevator equipment penthouse in the Atrium.

Funding: University Hospitals Funds

Estimated Construction Cost: \$330,000.00

Estimated Project Cost: \$387,760.00

POSTLE HALL - ELEVATOR INSTALLATION

Project: The first two floors of the shared elevator shaft between the west end of Postle Hall and the new connector to Cancer Research Institute were included in the Cancer Research project. This installation will complete the construction serving all floors of Postle Hall.

Funding: University Hospitals Funds

Estimated Construction Cost: \$313,888.00

Estimated Project Cost: \$353,000.00

November 5 and 6, 1987 meeting, Board of Trustees

**REQUEST FOR CONSTRUCTION BIDS AND
ESTIMATE OF COST - FUNDING (contd)**

ST. JOHN ARENA REPAIRS

Project: Repairs to various areas to enhance occupancy.
Funding: University Funds
Estimated Construction Cost: \$250,000.00
Estimated Project Cost: \$300,000.00

MCCRACKEN POWER PLANT - FACILITIES IMPROVEMENTS

Project: Relocate and renovate the water testing laboratory, and provide modern locker/shower/rest room facilities.
Funding: University Funds
Estimated Construction Cost: \$195,000.00
Estimated Project Cost: \$261,600.00

DOAN HALL 8TH FLOOR - DETENTION UNIT REMODELING

Project: Provide additional space for treatment of patients currently serving time in State penal institutions.
Funding: University Hospitals Funds
Estimated Construction Cost: \$171,600.00
Estimated Project Cost: \$198,040.00

**DOAN HALL 2 NORTH - GASTROENTEROLOGY
LABORATORY REMODELING**

Project: Renovate a former x-ray room and a computer room into a procedure/treatment room and laboratory. Project also includes the removal of a radiographic machine and the installation of a relocated radiographic machine and ancilliary equipment.
Funding: University Hospitals Funds
Estimated Construction Cost: \$143,000.00
Estimated Project Cost: \$171,660.00

NOW THEREFORE

November 5 and 6, 1987 meeting, Board of Trustees

**REQUEST FOR CONSTRUCTION BIDS AND
ESTIMATE OF COST - FUNDING (contd)**

BE IT RESOLVED, That the President and/or Vice President for Business and Administration be authorized, in accordance with established University procedures, to request construction bids on these projects, and if satisfactory bids are received, to award the necessary contracts, with all actions to be reported to this Board at the appropriate time.

Upon motion of Mr. Kessler, seconded by Mr. Wolf, the Board of Trustees adopted the foregoing resolution by unanimous roll call vote.

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**REPORT OF AWARD OF CONTRACTS AND
ESTABLISHMENT OF CONTINGENCY FUNDS**

Resolution No. 88-52

Synopsis: Contracts have been awarded for the projects listed below to the lowest and best bidders in accordance with University procedures.

WHEREAS resolutions adopted by the Board of Trustees at previous meetings authorized the President and/or Vice President for Business and Administration to sign the plans and specifications and, in accordance with established University procedures, to request bids and, if satisfactory bids were received, to recommend to the Department of Administrative Services, Division of Public Works, the award of contracts for the Kottman Hall - Biotechnology Laboratory Remodeling project; and

WHEREAS resolutions adopted by the Board of Trustees at previous meetings authorized the President and/or Vice President for Business and Administration to sign the plans and specifications and, in accordance with established University procedures, to request bids and, if satisfactory bids were received, to recommend the award of contracts for the Starling-Loving Hall - Autopsy Rooms project, as follows:

KOTTMAN HALL - BIOTECHNOLOGY LABORATORY REMODELING

Description: This project provides for the remodeling of a portion of the third floor so as to be able to conduct comprehensive state-of-the-art research in biotechnological areas. Construction is scheduled to begin December 1987 and be completed June 1988.

General Contract

Date Received:	September 24, 1987
No. of Bids:	7
Low Bid:	\$265,150.00*
High Bid:	\$330,423.00*

*Recommended alternates reflected in these figures.

November 5 and 6, 1987 meeting, Board of Trustees

**REPORT OF AWARD OF CONTRACTS AND
ESTABLISHMENT OF CONTINGENCY FUNDS (contd)**

KOTTMAN HALL - BIOTECHNOLOGY LABORATORY REMODELING (contd)

General Contract (contd)

Estimate of Cost: \$351,021.00*
Awarded to: M & P Construction Inc., Blacklick, OH

Plumbing Contract

Date Received: September 24, 1987
No. of Bids: 3
Low Bid: \$102,300.00*+
High Bid: \$133,200.00*
Estimate of Cost: \$ 97,832.00*
Awarded to: Radico Inc., Columbus, OH

HVAC Contract

Date Received: September 24, 1987
No. of Bids: 5
Low Bid: \$116,900.00*+
High Bid: \$197,000.00*
Estimate of Cost: \$103,711.00*
Awarded to: Radico Inc., Columbus, OH

Electric Contract

Date Received: September 24, 1987
No. of Bids: 6
Low Bid: \$ 54,400.00*
High Bid: \$ 96,630.00*
Estimate of Cost: \$ 63,525.00*
Awarded to: Functional Development, Inc., Dublin, OH

*Recommended alternates reflected in these figures.

+Plumbing and HVAC Contracts are in excess of filed estimate of cost; however, the total price of all contracts is within 10% of the total estimate of cost and is recommended for award as provided by Section 153.12 of the Revised Code.

November 5 and 6, 1987 meeting, Board of Trustees

**REPORT OF AWARD OF CONTRACTS AND
ESTABLISHMENT OF CONTINGENCY FUNDS (contd)**

KOTTMAN HALL - BIOTECHNOLOGY LABORATORY REMODELING (contd)

Total All Contracts:	\$538,750.00*
Total Contingency Allowance:	\$ 37,997.82 (which is 7% of construction costs)
Total Project Cost:	\$674,750.00*
Funding:	HB 870 U & R and University Funds

*Recommended alternates reflected in these figures.

STARLING-LOVING HALL - AUTOPSY ROOMS

Description: This project provides for the removal of the inadequate HVAC and exhaust system applying Autopsy Rooms M-008 and M-010 and the installation of a new system. Construction is scheduled to begin October 1987 and be completed within one hundred twenty days.

General Contract

Date Received:	September 22, 1987
No. of Bids:	2
Low Bid:	\$ 21,935.00
High Bid:	\$ 23,000.00
Estimate of Cost:	\$ 25,000.00
Awarded to:	Functional Development Inc., Dublin, OH

Mechanical Contract

Date Received:	September 22, 1987
No. of Bids:	5
Low Bid:	\$126,300.00+
High Bid:	\$129,700.00
Estimate of Cost:	\$115,000.00
Awarded to:	Radico Inc., Columbus, OH

+Mechanical Contract is in excess of filed estimate of cost; however, the total price of all contracts is within 10% of the total estimate of cost and is recommended for award as provided by Section 153.12 of the Revised Code.

November 5 and 6, 1987 meeting, Board of Trustees

**REPORT OF AWARD OF CONTRACTS AND
ESTABLISHMENT OF CONTINGENCY FUNDS (contd)**

STARLING-LOVING HALL - AUTOPSY ROOMS (contd)

Electric Contract

Date Received:	September 22, 1987
No. of Bids:	3
Low Bid:	\$ 15,229.00
High Bid:	\$ 22,725.00
Estimate of Cost:	\$ 20,000.00
Awarded to:	Functional Development, Dublin, OH
Total All Contracts:	\$163,464.00
Total Contingency Allowance:	\$ 15,382.31 (which is 9% of construction costs)
Total Project Cost:	\$198,150.00
Funding:	University Hospitals Funds

NOW THEREFORE

BE IT RESOLVED, That pursuant to the actions previously authorized by the Board, the award of contracts and the establishment of project funds and contingency funds for the projects listed above are hereby approved.

Upon motion of Mrs. Bowser, seconded by Ms. Casto, the Board of Trustees adopted the foregoing resolution by unanimous roll call vote.

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**LEASE OF LAND TO THE
FRANKLIN COUNTY BOARD OF MENTAL RETARDATION AND
DEVELOPMENTAL DISABILITIES**

Resolution No. 88-53

Synopsis: Lease of approximately 43 acres of unimproved land at 350 Dodridge Street in Columbus, Ohio, to the Franklin County Board of Mental Retardation and Developmental Disabilities is proposed.

WHEREAS the Franklin County Board of Mental Retardation and Developmental Disabilities operates ARC Industries, a sheltered workshop for the training of the mentally retarded, and proposes to construct a new facility on a larger site for this purpose; and

WHEREAS The Ohio State University has approximately 43 acres of undeveloped land located at 350 Dodridge Street in Columbus, Ohio, which could be made available for this purpose; and

November 5 and 6, 1987 meeting, Board of Trustees

**LEASE OF LAND TO THE
FRANKLIN COUNTY BOARD OF MENTAL RETARDATION AND
DEVELOPMENTAL DISABILITIES (contd)**

WHEREAS the appropriate University offices have determined that the lease of this 43-acre tract to the Franklin County Board of Mental Retardation and Developmental Disabilities is in the best interest of the University:

NOW THEREFORE

BE IT RESOLVED, That the President and/or Vice President for Business and Administration be authorized, on behalf of the Board, to negotiate a lease of this 43-acre tract located at 350 Dodridge Street to the Franklin County Board of Mental Retardation and Developmental Disabilities for the purpose of providing a site for a new sheltered workshop facility, at a rental rate based on the market value of the property and upon such other terms and conditions as are deemed to be in the best interest of the University and to request the Department of Administrative Services, on behalf of the University, to develop and execute the necessary legal instruments for this lease.

Upon motion of Mr. Wolf, seconded by Ms. Casto, the Board of Trustees adopted the foregoing resolution by unanimous roll call vote.

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**DEMOLITION OF BUILDING
AT THE FRANZ THEODORE STONE LABORATORY
PUT-IN-BAY, OHIO**

Resolution No. 88-54

Synopsis: Demolition of a building at the Franz Theodore Stone Laboratory at Put-In-Bay, Ohio, is proposed.

WHEREAS the Board of Trustees of The Ohio State University owns the Mary Rogick Cottage located at the Franz Theodore Stone Laboratory on lot number 49 on Peach Point of South Bass Island; and

WHEREAS the Cottage, which has been vacant since June 1986, has deteriorated beyond economic repair and demolition of the building has been recommended by the appropriate University offices; and

WHEREAS demolition can be accomplished in the most cost effective way by allowing the Put-In-Bay Fire Department to use the building as a training fire site:

NOW THEREFORE

BE IT RESOLVED, That the demolition of the Mary Rogick Cottage at the Franz Theodore Stone Laboratory by making the building available as a training fire site for the Put-In-Bay Fire Department be approved.

Upon motion of Mr. Wolf, seconded by Ms. Casto, the Board of Trustees adopted the foregoing resolution by unanimous roll call vote.

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November 5 and 6, 1987 meeting, Board of Trustees

**UNIVERSITY MEMBERSHIP IN
HOSPITAL HELICOPTER CONSORTIUM OF CENTRAL OHIO**

Resolution No. 88-55

Synopsis: Recommendation that The Ohio State University become a member of the Hospital Helicopter Consortium of Central Ohio and enter into an agreement for services from the Consortium is proposed.

WHEREAS Central Ohio currently is being served by a helicopter service owned and operated by Grant Medical Center; and

WHEREAS The Ohio State University has been unable to reach agreement with Grant Medical Center for helicopter transport services; and

WHEREAS the Hospital Helicopter Consortium of Central Ohio is a nonprofit corporation organized and operated under the laws of the State of Ohio and has no capital stock; and

WHEREAS the purpose of the corporation is to operate a helicopter transportation service to serve the patients of member hospitals and other healthcare facilities; and

WHEREAS the University Hospitals Board has determined that participation in this Consortium is in the best interest of the University; and

WHEREAS the University Hospitals Board approved this recommendation at its September 24, 1987 meeting:

NOW THEREFORE

BE IT RESOLVED, That The Ohio State University Board of Trustees recommends that the appropriate officials of The Ohio State University take the actions necessary to join the Hospital Helicopter Consortium of Central Ohio upon such terms and conditions as are in the best interest of the University and to enter into an agreement for services from the Consortium.

Upon motion of Mr. Kessler, seconded by Mr. Wolf, the Board of Trustees adopted the foregoing resolution by unanimous roll call vote.

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**AMENDMENTS TO THE CODE OF REGULATIONS OF
OHIO STATE UNIVERSITY AFFILIATES, INC.**

Resolution No. 88-56

Synopsis: Amendments to the Code of Regulations of Ohio State University Affiliates, Inc., are proposed.

WHEREAS the Board of Directors of Ohio State University Affiliates, Inc., has proposed recommended changes to Sections 1.01, 1.02, 1.04(B), and 1.04 (D), of its Code of Regulations; and

November 5 and 6, 1987 meeting, Board of Trustees

**AMENDMENTS TO THE CODE OF REGULATIONS OF
OHIO STATE UNIVERSITY AFFILIATES, INC. (contd)**

WHEREAS the Code of Regulations of Ohio State University Affiliates, Inc., requires approval of The Ohio State University Board of Trustees to any amendments to the Code of Regulations or Articles of Incorporation; and

WHEREAS The Ohio State University Board of Trustees finds the amendments to the Code of Regulations of Ohio State University Affiliates, Inc., to be appropriate, as follows:

**ARTICLE I
Directors**

Section 1.01. Power and Authority of Directors. Except as otherwise provided by law, the Articles of Incorporation of the Corporation or these Regulations, all of the authority of the Corporation shall be exercised by the Board of Directors. The Directors serving hereunder shall have the power, authority and responsibilities of, and perform the functions provided for under the Ohio Non-profit Corporation law.

Section 1.02. Classes and Number of Voting Directors. Except with respect to the initial Board of Directors described below, the voting members of the Board of Directors shall consist of three (3) individuals elected by the Chairman of The Ohio State University (the "University") Board of Trustees, from its number.

Prior to the commencement of full operations of the Corporation, the Board of Directors shall consist of the three (3) persons named in the Articles of Incorporation. As soon as full operations are commenced and, in any event prior to November 30, 1987, the initial Board shall be replaced by the full Board of Directors.

Section 1.04 Provisions Relating to Directors.

B. Term. Each Director designated in the Articles of Incorporation shall be deemed to be elected as such as of the time of filing of the Articles of Incorporation to serve until their replacement by the permanent Board at the earlier of the commencement of full operations of November 30, 1987. Thereafter, the three (3) Directors elected by the Chairman of the University Board of Trustees from its number shall serve for terms of one year each. Directors may be reelected. At the end of each term, a vacancy will be created until a successor is elected and qualified.

D. Resignation. Any Director, by notice in writing to both the Board of Directors and to the person that elected such Director, may resign at any time.

NOW THEREFORE

BE IT RESOLVED, That the amendments to the Code of Regulations of Ohio State University Affiliates, Inc., are approved.

Upon motion of Mr. Teaford, seconded by Mr. Wolf, the Board of Trustees adopted the foregoing resolution by unanimous roll call vote.

November 5 and 6, 1987 meeting, Board of Trustees

**NON-MANDATORY TRANSFER FROM CURRENT FUNDS
FISCAL YEAR 1986-87**

Resolution No. 88-57

Synopsis: Transfers to Endowment Principal Funds, Unexpended Plant Funds, Renewal and Replacement Funds - Remodeling and Renovation, Renewal and Replacement Funds - Repair and Replacement, Retirement of Indebtedness Funds and Investment in Plant Funds are being recommended for approval.

WHEREAS non-mandatory transfers from current funds for the fiscal year 1986-87 have been made; and

WHEREAS this accounting procedure is in compliance with the Auditor of State that all transfers made among fund groups be reported:

NOW THEREFORE

BE IT RESOLVED, That the transfers as detailed in the accompanying report be accepted and approved.

Upon motion of Ms. Casto, seconded by Mr. Kessler, the Board of Trustees adopted the foregoing resolution by unanimous roll call vote.

November 5 and 6, 1987 meeting, Board of Trustees

Non-Mandatory Transfers from Current Funds
Fiscal Year 1986-87

Account Description	Account Number	Transferred From Account Number	Amount
To: <u>ENDOWMENT PRINCIPAL</u>			
Endowment Investment Pool	070000	011563	\$ (10,000.00)
" " "	070000	032910	(38,418.78)
Endowment Clearing Account	070002	033015	8,754.05
Martha Brian Fellowship in Journalism	070803	031121	1,000.00
Chemistry Excellence Fund	071227	011535	2,383.69
Center for Epigraphical Study	071501	037325	14,000.00
William D. Dowling Fund for Adult Education	071815	031705	2,000.00
William M. Drenten Award	071828	031121	1,000.00
The Harold and Audrey Enarson Professorship in Public Policy	071968	015032	66,511.40
Friends of WOSU	072324	033227	26,084.50
Hilandar Research Project Fund	073182	051502	90,670.56
" " " "	073182	033820	1,206.99
Humanities Fund	073338	032445	15,000.00
Martha King Scholarship Award	073691	036959	2,000.00
D.J. and J.N. Knull Fund	073756	033583	33,000.00
Dorothy and George Lewis Fund	074164	031705	20.35
" " " "	074164	036959	489.22
" " " "	074164	037113	1,490.43
Library Endowment Fund	074182	033478	500.00
" " "	074182	011465	2,000.00
Marion Campus Dean's Fund	074486	036681	2,180.00
Math and Physical Science Excellence Fund	074526	033063	40,000.00
Ohio Eminent Scholar in Industrial Microbiology	075353	015018	500,000.00
Ohio Eminent Scholar in Materials Research	075355	015018	500,000.00
Ohio Eminent Scholar in Mechanical Systems	075356	015018	500,000.00
The Ohio State University Name and Seal Scholarship Fund	075427	015102	230,000.00
Optometry Research Fund	075510	035260	65,000.00
Pharmacy Advancement Fund	075725	050520	(22,500.00)
Helen H. Santmyer Fund	076274	011045	15,419.23
Walter W. Seifert Award	076465	031121	1,000.00
Howard Dwight Smith Scholarship	076741	031664	250.00
Franz Theodore Stone Laboratory Visiting Professorship Fund	077014	033701	4,000.00
Robert Taylor Fellowship Fund	077137	036306	52,502.00
Univ. Hospitals Endowment Fund	077418	019982	(1,000,000.00)
The Adolph E. Waller Memorial Lectures Fund	077541	032360	366.88
Florence O. Wilson Fund	077723	011073	90,000.00
" " " "	077723	010058	184,588.50

November 5 and 6, 1987 meeting, Board of Trustees

Non-Mandatory Transfers from Current Funds
Fiscal Year 1986-87

Account Description	Account Number	Transferred From Account Number	Amount
<u>To: ENDOWMENT PRINCIPAL</u>			
Various Endowment Funds	07XXXX	02XXXX	<u>1,034,823.86</u>
Total Transfers to Endowment Principal Funds			\$ 2,417,322.88 =====

To: PLANT FUNDS

Unexpended

Mershon Music Addition	082037	010058	\$ 1,077.24
Univ. Systems Cable Project	082054	010058	(23,862.99)
Wexner Visual Arts Center	082055	010064	4,087,398.87
Rardin Family Practice Center	082056	033702	412.43
" " " "	082056	050391	1,940.00
Magnetic Resonance Imaging Facility	082058	010061	2,700,000.00
Clinical Medical Services	082061	010064	237,850.16
Medical Logistical Services	082063	010064	504,459.86
Finley Farm Phase II	082064	011020	57,150.89
" " " "	082064	015108	44,818.40
Twelfth Avenue Ramp	082066	010058	4,506.00
" " " "	082066	010061	1,428,806.97
Northwest Utility Plan	082074	010064	28,597.00
OARDC Barn Replacement	082076	010058	490,000.00
Stores and Receiving Facility Construction Fund	082078	010066	(19.00)
Child Care Facility Construction Fund	082079	010065	(10.00)
Biggs Facility - Gifts	082080	010063	(458,129.40)
Visual Arts Center - Gifts	082081	051501	<u>907,644.93</u>
Total Unexpended Plant Funds			\$ 10,012,641.36 =====

Renewal and Replacement Funds -
Remodeling and Renovation

Dormitory Contingency Fund	085049	010064	\$ (8,682,860.98)
" " "	085049	010063	(900,810.02)
" " "	085049	010064	(284,865.34)
" " "	085049	016024	1,150,000.00
" " "	085049	017200	1,325,988.00
Archer / Oxley Improvements	085050	017200	50,706.83

November 5 and 6, 1987 meeting, Board of Trustees

Non-Mandatory Transfers from Current Funds
Fiscal Year 1986-87

Account Description	Account Number	Transferred From Account Number	Amount
<u>To: PLANT FUNDS</u>			
<u>Renewal and Replacement Funds - Remodeling and Renovation</u>			
Parking Lot Repairs	085071	016007	150,000.00
Johnston Lab Phase I	085090	010058	50,215.10
Housing Commission #3 Retrofit	085169	017300	2,444.46
Parking Ramp Repair	085175	016007	25,000.00
South Medical Parking Ramp	085176	016007	(50,000.00)
Stadium Scholarship Dorms	085181	010064	4,159,189.85
" " "	085181	016024	(1,000,000.00)
" " "	085181	017200	(2,000,000.00)
Mansfield Telephone System	085183	010942	10,000.00
Farm Science Review Relocation	085196	011083	100,000.00
Means Hall Remodeling	085198	010058	(530.00)
Entranceways	085200	010058	1,253.38
Lincoln/Morrill Renovation	085220	017300	(1,856.00)
Wiseman Hall Renovation	085235	010058	2,924.05
Stadium Scoreboard	085236	010061	1,892,216.81
Ohio Union Ramp Addition	085256	010061	2,243,536.83
Stone Lab Residence Hall	085258	010058	(37,012.00)
Boiler Superheater	085260	010058	428.00
North Medical Ramp Repair	085269	016007	(50,000.00)
UNITS	085276	010058	202,500.00
"	085276	010061	11,061,479.07
Biggs Expansion (Multisports)	085278	010064	783,177.06
" " "	085278	016019	365,111.00
Theatre Research (Lincoln 14th)	085286	010051	(74,048.00)
Sponsored Program (1314 Kinnear)	085293	010414	(128,353.00)
Campbell Hall Renovation	085295	037675	2,100.00
Back Pressure Turbine	085310	010061	107,776.60
Vet Science (Sisson Addition)	085311	010058	2,954.88
Conard Gallery - Mansfield	085314	037965	75,000.00
1985B General Receipt Bond Construction Fund	085315	010061	(21,330,864.70)
Veterinary Lab Improvement	085322	015110	100,000.00
Cunz Hall Renovation	085323	010058	162,125.00
Scott/Bevis Renovations	085330	010058	21,592.65
Environmental Lab Relocation	085331	010058	50,000.00
Caad Lab Air Conditioning	085332	010414	(4,896.00)
Arps Hall Renovation	085336	010058	108,835.00
Stadium Pressbox - Trustees	085337	016019	25,000.00
Smith Lab Renovation	085343	010058	113,255.00
Stud Affairs (Counseling) Renov	085344	010058	10,000.00

November 5 and 6, 1987 meeting, Board of Trustees

Non-Mandatory Transfers from Current Funds
Fiscal Year 1986-87

Account Description	Account Number	Transferred From Account Number	Amount
To: <u>PLANT FUNDS</u>			
<u>Renewal and Replacement Funds</u>			
<u>Remodeling and Renovation</u>			
1986 General Receipts Bond			
Construction Fund	085350	010063	(1,759,312.95)
" " " "	085350	010064	(9,909,083.12)
Aero/Astro Research Lab	085351	010414	164,838.00
Baker Systems Renovation	085352	010414	23,060.00
Arps Teaching Lab Renovation	085356	010058	61,150.00
Twelfth Avenue Widening	085358	010058	176,420.00
Hagarty Hall Renovations	085359	031475	33,325.00
Evans Lab Renovation	085360	010058	36,000.00
Newton Hall Renovation	085362	010058	54,450.00
Kottman Biotech Lab Renovation	085365	010058	296,727.00
" " " "	085365	033008	19,273.00
Tenth and Neil Intersection	085366	010058	57,040.00
High Street Improvements	085374	014110	63,499.46
Arps Ramp Addition	085375	016007	300,000.00
WOSU Transmitter	085376	033227	299,000.00
Hitchcock Hall Renovation	085377	010058	76,000.00
Lord/Hopkins Art Lab	085378	010058	10,197.00
Orton Hall Lab	085379	010058	172,796.00
Lima Parking Lot #3 West	085380	010928	(5,352.80)
Rightmire Biotech Center	085381	010058	410,000.00
Pressey Hall Remodeling	085382	010058	15,000.00
Airport Renovation (Project 4)	085383	010058	4,000.00
Theatre Renovation	085384	010058	85,905.00
Public Safety Bldg Renovation	085388	016007	49,000.00
Treasurers Office Renovation	085389	010058	200,000.00
Larkins Hall - Resurface Courts	085390	010058	141,000.00
Emergency Lighting	085391	010058	154,600.00
Howlett Lab Renovation	085392	033008	114,900.00
Horticulture Greenhouse	085393	010058	140,000.00
Horticulture Greenhouse	085383	011568	59,700.00
Cival/Aero Engineering Lab	085394	010414	48,663.33
Biochemistry Lab Renovation	085395	010058	43,321.00
International Studies Remodel	085396	010058	85,441.00
Johnston Lab Renovation	085397	010058	24,000.00
CARDC Animal Science Renovation	085399	057189	225,660.00
Honors House Renovation	085400	010058	200,000.00
Sisson Lab Renovation	085401	015108	50,600.00
Oxley Hall Renovation	085402	010058	4,400.00
Student Affairs Renovation	085407	010058	49,345.00
Galvin Hall Renovation	085410	010928	106,840.00

November 5 and 6, 1987 meeting, Board of Trustees

Non-Mandatory Transfers from Current Funds
Fiscal Year 1986-87

Account Description	Account Number	Transferred From Account Number	Amount
<u>To: PLANT FUNDS</u>			
<u>Renewal and Replacement Funds</u>			
<u>Remodeling and Renovation</u>			
Dulles Hall Renovation	085411	010058	29,945.00
Sullivant Hall Renovation	085412	010058	208,000.00
Sisson Hall Renovation	085413	010058	33,740.00
" " "	085413	036355	2,500.00
Enarson Hall Renovation	085414	010058	40,000.00
Biological Science Renovation	085416	010058	55,510.00
Derby Hall Renovation	085417	010058	12,082.00
McPherson Lab Renovation	085418	010058	188,545.00
Academic Affairs Renovation	085420	010058	38,630.00
Smith Lab Renovation	085421	010058	43,030.00
Bricker Hall Renovation	085422	010058	33,121.00
Evans Lab Renovation	085423	010058	27,625.00
Baker Systems Renovation	085427	012900	48,000.00
Student Life Renovation	085429	010058	27,550.00
Botony & Zoology Renovation	085430	010058	89,928.00
Aero/Astro Research Lab	085431	033752	4,750.00
McPherson Lab Renovation	085432	010058	54,099.00
Research Foundation Renovation	085433	010058	32,950.00
Total Remodeling and Renovation			\$ (16,802,879.55)
=====			
<u>Renewal and Replacement Funds -</u>			
<u>Repairs and Replacements</u>			
Business & Admin Equip Reserve	086905	010058	\$ 17,350.00
Business Mgt Equip Reserve	086907	010051	(42,000.00)
" " " "	086907	010058	(74,970.56)
Treasurer's Equipment Reserve	086908	010058	11,120.56
Physical Facility Equip Reserve	086909	010058	67,251.54
Police Equipment Reserve	086910	010051	(39,600.00)
" " "	086910	010058	21,898.50
Traffic & Parking Equip Reserve	086911	010058	1,187.52
" " " "	086911	016007	205,625.00
Food Facility Equip Reserve	086912	014006	25,000.00
Stores Equipment Reserve	086913	014006	251,400.00
Print Facility Equip Reserve	086916	014002	350,000.00
Physical Facility Imprv Reserve	086920	010058	(250,000.00)
" " " "	086920	014011	86,804.71
University Airport Reserve	086921	010058	17,196.00
Meat Laboratory Equip Reserve	086922	011072	19,000.00
Fire Prevention Equip Reserve	086923	010058	(35,569.00)
Univ Property Equip Reserve	086926	016300	17,800.00
North Apartments Equip Reserve	086928	016390	1,900.00

November 5 and 6, 1987 meeting, Board of Trustees

Non-Mandatory Transfers from Current Funds
Fiscal Year 1986-87

Account Description	Account Number	Transferred From Account Number	Amount
<u>To: PLANT FUNDS</u>			
<u>Renewal and Replacement Funds -</u>			
<u>Repairs and Replacements</u>			
Property Mgt Equip Reserve	086929	016015	15,500.00
Univ Property Improv Reserve	086930	016300	102,800.00
North Apartments Improv Reserve	086932	016390	30,800.00
Housing Comm #1 Improv Reserve	086933	016101	5,000.00
Drake Union Equipment Reserve	086935	016005	(0.05)
WOSU (Telecom) Equip Reserve	086938	011064	10,000.00
Food Facility Improv Reserve	086940	014006	9,000.00
Mail Service Equipment Reserve	086941	014027	7,000.00
Property Mgt Major Impr Reserve	086942	016015	3,300.00
Alumni Information Eq Reserve	086958	010058	(23,459.62)
Athletic Turf Improv Reserve	086962	037676	500,000.00
Transportation Reserve	086964	010058	483,000.00
" " " "	086964	014100	100,000.00
NCRVE Equipment Reserve	086967	011077	44,000.00
Lantern Equipment Reserve	086968	011081	215,000.00
Reprograhics Equipment Reserve	086969	014030	260,000.00
Public Safety Equip Reserve	086971	010058	5,536.00
Health Services Equip Reserve	086973	010051	20,000.00
Registrar Equipment Reserve	086975	010051	(65,000.00)
" " " "	086975	010058	(50,000.00)
Air Transport Svc Equip Reserve	086976	014100	50,000.00
Contracts Admin Equip Reserve	086977	010058	15,885.32
Budget Planning Equip Reserve	086980	010058	(5,370.00)
Recreation/Intramural Equip Res	086984	011454	15,000.00
" " " "	086984	011498	10,000.00
Student Affairs Equip Reserve	086985	010051	(196,173.29)
" " " "	086985	010058	222,093.20
Student Affairs Equip Reserve	086985	011473	(36,835.00)
" " " "	086985	016020	18,278.67
" " " "	086985	016031	(5,896.95)
Athletic Contingency	086988	016019	444,140.00
Univ Systems Equip Reserve	086990	014033	740,000.00
College Admin Equip Reserve	086992	010058	68,300.00
Hospital Capital Equipment	086995	010058	38,591.55
" " " "	086995	010060	(566,203.56)
" " " "	086995	010063	(1,895,413.99)
" " " "	086995	019000	4,834,529.19
" " " "	086995	033387	(17,500.00)
General Plant Funds	086999	032851	8,074.18
Total Repairs and Replacements			\$ 6,065,369.92
			=====
Total Transfers to Renewal and Replacement Funds			\$(10,737,509.63)

November 5 and 6, 1987 meeting, Board of Trustees

Non-Mandatory Transfers from Current Funds
Fiscal Year 1986-87

Account Description	Account Number	Transferred From Account Number	Amount
<u>Retirement of Indebtedness</u>			
Housing Comm #3 Debt Service	087005	017300	\$ 60,884.73
1985B Bonds Debt Service	087024	010060	<u>69,795.06</u>
Total Transfers to Retirement of Indebtedness			\$ 130,679.79 =====
<u>Investment in Plant</u>			
OSU Buildings	088100	019000	\$ 6,596,093.00
Construction In Progress	088500	019000	1,594,519.00
US Dept Education Note Payable	088977	017300	<u>(496,400.00)</u>
Total Transfers to Investment in Plant			\$ 7,694,212.00 =====
Total Transfers to Plant Funds			\$ 7,100,023.52 =====
Grand Total Non-Mandatory Transfers from Current Funds			\$ 9,517,346.40 =====

November 5 and 6, 1987 meeting, Board of Trustees

President Jennings made the following statement:

Mr. Chairman, one more item -- I would like Dick Jackson to update us on an issue that is on the air right now. It is a serious issue and some of the discussion on the air is making fun of it. I think it is a much more serious issue than the people on the radio are making of it, and I would like Dick Jackson to update us on the issue.

Mr. Jackson:

Thank you, Mr. President, Members of the Board. As you know, last night there was a report on Channel 4 about the fifth floor of the Main Library and the presence there of semen, urine, tobacco juice, and other staining in the area. We have, this morning, contracted with a custodial firm to clean those areas up. This has been an ongoing problem at the University in a number of areas. It is a problem today, as evidenced by the public discussion that is going on, and will continue to be a problem over the years to come. So we are in the process of contracting to have it cleaned up and we will go through the entire library to make sure that there are no other areas, and if there are, they will be cleaned also. We will be using proper cleaning procedures as are dictated by the appropriate authorities. We will also have a spokesman for the University, because there is some interest by the press at this point. We think we can straighten this issue up, but I would suggest to you all that it is not something that we will resolve today, because it will be an ongoing problem.

Mrs. Bowser:

I assume that area will be closed until such a time that --

Mr. Jackson:

It is not closed at this point and I don't think it is necessary in order to accomplish the work, nor is it a hazard to anyone.

Mrs. Bowser:

Okay.

President Jennings:

But I can assure this Board that Mr. Jackson and the entire University takes this issue very seriously. This is not a trivial issue and should not be taken lightly by anybody. This is something that any organization has to deal with; it is unfortunate, but it is not a light issue. That completes my agenda, Mr. Chairman.

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November 5 and 6, 1987 meeting, Board of Trustees

REPORT - UNIVERSITY'S INVESTMENT PORTFOLIO

Resolution No. 88-58

RESOLVED, That the report on the University's Investment Portfolio, dated October 16, 1987, as submitted to the Fiscal Affairs Committee of the Board of Trustees, be received and filed with the official records of the Board.

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**FIRST QUARTER REPORT -
1987-88 CURRENT FUNDS BUDGET**

Resolution No. 88-59

RESOLVED, That the first quarter report on the 1987-88 Current Funds Budget, dated November 6, 1987, as submitted to the Fiscal Affairs Committee of the Board of Trustees, be received and filed with the official records of the Board.

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**QUARTERLY REPORT -
WAIVERS OF COMPETITIVE BIDDING REQUIREMENTS**

Resolution No. 88-60

RESOLVED, That the quarterly report on the Waivers of Competitive Bidding Requirements, dated July through September 1987, as submitted to the Fiscal Affairs Committee of the Board of Trustees, be received and filed with the official records of the Board.

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Thereupon the Board adjourned to meet Thursday, December 3, 1987, at The Ohio State University Fawcett Center for Tomorrow, Columbus, Ohio, at 6:30 p.m.

Attest:

Madison H. Scott
Secretary

Edmund C. Redman
Chairman

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APPENDIX II

Degrees Conferred at

THE OHIO STATE UNIVERSITY
COMMENCEMENT CONVOCATION

December 11, 1987

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Commencement Speaker

Henry Ponder

Henry Ponder, president of Fisk University in Nashville, graduated from Ohio State in 1963 with a doctoral degree in agricultural economics. He also holds a master's degree from Oklahoma State University and a bachelor's degree from Langston University.

Before assuming the presidency at Fisk, he was president of Benedict College in Columbia, South Carolina. His other academic positions include vice president for academic affairs and dean of the college, Alabama A & M University; chairperson, Department of Business and Economics, Fort Valley State College, Georgia; and chairperson, Department of Agribusiness, Virginia State College, Virginia.

Ponder has served as an economic consultant to the Irving Trust Company of New York City. His business experience also includes work with the Federal Reserve Bank of New York's Department of Banking Studies, the Philadelphia National Bank, the Omaha National Bank, the U.S. Department of Treasury, and the Chase Manhattan Bank.

He is involved with numerous civic organizations, among them the Better Business Bureau, the Nashville Chamber of Commerce, the Tennessee Repertory Theatre, the YMCA, the Nashville Institute for the Arts, the United Way of Middle Tennessee, the Martin Luther King Jr. Health Science Magnet School, and the Bishop Desmond Tutu Southern African Refugee Scholarship Fund.

He has been listed in several directories of prominent individuals such as *Who's Who Among Black Americans*, *Community Leaders of America*, *Men of Achievement*, *Directory of Distinguished Americans*, *International Who's Who of Intellectuals*, and *The Book of Honor*. Among his many awards are three Distinguished Alumnus Awards—one from each of the colleges that awarded him degrees. In 1986 he was named as one of the 100 most effective college presidents in the United States, according to a Bowling Green research survey. In June of this year, Ponder was a recipient of the President's 300th Commencement Award from Ohio State. We congratulate him for his accomplishment, and we welcome him back as speaker for the University's 302nd commencement.

Recipients of Honors

Josephine Sitterle Failer Doctor of Humanities

Since graduating from Ohio State in 1939 with a bachelor's degree in pharmacy, Josephine Sitterle Failer has been a dedicated supporter of the University. Deeply interested in Ohio State students, she has served in a variety of leadership capacities and has given countless hours of volunteer time to numerous projects throughout the last half century.

Within the College of Pharmacy, she established a student loan fund for pharmacy students, organized many college events, provided leadership for fund-raising efforts, and has held several volunteer leadership positions. Failer has also been very involved in Ohio State's Alumni Association and has been a member of the organization's board of directors and reunion committees.

She has been very active in other University organizations such as Friends of the Library of The Ohio State University, Friends of WOSU, and Program 60, through which people 60 years and older enroll in University classes.

A donor every year since the founding of The Ohio State University Development Fund in 1939, Failer has shared both her time and resources with the University; she became a member of The Presidents Club in 1965, has been a member of the club's executive committee, and has been a leader in numerous other fund-raising projects as well.

Her previous awards from the University include a Distinguished Service Award, the Alumni Centennial Award, the Centennial Service Award, the Ralph D. Merston Alumni Award, and the Everett D. Reese Medal. The University is pleased to honor this dedicated and distinguished alumna.

Ann Hutchinson Guest Doctor of Humanities

Ann Hutchinson Guest is regarded internationally as the senior expert in the field of Labanotation, a system of dance notation that uses symbols to indicate very specific movement. Labanotation allows entire dance works to be recorded on paper in a manner that is, according to Guest, somewhat comparable to music notation.

Guest has been a proponent of the idea that dance should have libraries of written works which, like music scores, would accurately preserve great works of art for future study and performance. She has resurrected historical dances that previously existed only in period writings, and it is largely through her efforts that Labanotation has gained acceptance throughout the world. As a dance scholar and historian, she has studied 24 old and contemporary systems of dance notation—she is fluent in five methods of notation. She is, in addition, the author of the standard text of the Laban system of notation.

Guest was born in New York City, and her education includes work at Cambridge University in England and the Joss-Leeder Dance School, where she studied modern dance and Labanotation. Subsequently, she danced professionally for eight years in modern dance concerts and Broadway shows.

She was one of the founding faculty members of the High School of Performing Arts in New York City and the Department of Dance at the Juilliard School, where she taught for 10 years. She was among the notation experts who set up the Dance Notation Bureau in New York in 1940, and in 1962, she founded the Language of Dance Centre in London, which she heads today. She was also instrumental in establishing the Labanotation Institute at the University of Surrey in 1985. Her original research continues to be the major influence affecting the development of the notation of human movement, and her writings form the basis for the study of this discipline in higher education. The University proudly confers this award on her for her lifetime of accomplishment and distinguished contributions to the world of dance.

Recipients of Honors

Janet Taylor Spence Doctor of Science

Janet Taylor Spence is a distinguished scholar who has made important contributions to the body of primary research literature in psychology. The impact of her doctoral dissertation has been monumental in its effect on research in personality theory, motivation, learning, and psychopathology. Her dissertation was, for many years, one of the most widely cited articles in psychological literature. Much of her later work has focused on achievement and motivation and on gender roles.

Spence holds a bachelor's degree from Oberlin College and master's and doctoral degrees from the State University of Iowa. She has worked at several institutions, including Harvard, Yale, Northwestern, Iowa, and the University of Texas, where she has served as department chairperson and is currently a member of the faculty.

She is among the most productive scholars in her field; she has written or co-written more than 100 articles and over 20 books and book chapters. She has also been very involved with professional organizations—she has been elected president of the American Psychological Association and has served in several leadership capacities in other organizations, including the American Association for the Advancement of Science, the Psychonomic Society, the Southwestern Psychological Association, and the Society of Experimental Social Psychology.

Her professional activities also include service as trustee, the James McKeen Cattell Foundation; as chair, visiting committee to the Harvard University Department of Psychology and Social Relations; as a member on the editorial committee of the *Annual Review of Psychology*; as a member on the board of governors, Center for Creative Leadership; and as a member on the advisory committee, Hogg Foundation for Mental Health. Ohio State is proud to honor her for her valuable contributions to her profession and to society.

Paolo Emilio Taviani Doctor of Humane Letters

Paolo Emilio Taviani, a leader of the Italian Resistance during World War II, has been a major intellectual presence in Italian academic and political life for over 40 years. Currently a senator in the Italian government, Taviani is one of a few living parliamentarians who has held an elected seat in Italy without interruption from 1945 to the present.

Born in Genoa, he holds doctoral degrees in jurisprudence, in social sciences, and in letters and philosophy. After college he began a teaching career in law and political science and later taught economics and history. He is a prolific and renowned scholar—he has published more than 20 books and dozens of reviews and articles on subjects related to the social sciences. He produced two exhaustive studies of Christopher Columbus' life and voyages, which have brought him international recognition as the greatest living authority on Columbus.

In addition to his distinguished academic career, Taviani has been a central participant in much of the social and economic history of Italy and western Europe. In 1943, during the German occupation of Italy, he helped form the National Committee for the Liberation of Liguria and served clandestinely as a partisan commander in the Resistance—actions for which he was much decorated. Also in 1943, he helped create the Christian Democrat Party. He was among the founders of the Italian Republic and a deputy to the Constitutional Committee.

After the war, he resumed his academic work and also began a career in the Italian political arena. He has served in numerous governmental capacities, including national vice secretary and national secretary of the Christian Democrat Party, representative to Parliament, senator of the Republic, chairman of the Senate foreign affairs committee, and he has held several cabinet positions. Ohio State is proud to honor him for his achievement, his leadership, and his contributions to twentieth-century civilization.

Recipients of Honors

C. K. Tseng Doctor of Science

C. K. Tseng is a distinguished international professor, scholar, and humanitarian, as well as a pioneer and leader in both basic and applied aspects of the aquatic sciences in the People's Republic of China. An expert in the study of algae, he received his doctorate from the University of Michigan in 1942 and is director emeritus of the Institute of Oceanology, Tsingtao, China.

Tseng's advanced professional training in the midwestern United States and subsequently at Scripps Institute of Oceanography has been a prelude to a life of leadership, service, and innovation within his country. His influence and activities have extended well beyond the boundaries of China and have been instrumental in re-establishing east-west relations; his work has fostered extensive international exchanges between scientific communities in both hemispheres.

During his career he has chaired the departments of Botany and Fisheries at Shandong University, China, and co-founded the Institute of Oceanology. He developed techniques for the successful cultivation of two economically important seaweeds, making China a leading world producer of these plants. He and his students are responsible for some of the earliest work in applying modern biotechnology to the study of marine organisms and to the genetic improvement of commercial seaweed stocks.

Since the end of the Cultural Revolution, Tseng has orchestrated events that have brought researchers and scholars together from all over the world. He has been the key figure in the successful development of relationships between aquatic scientists of China and the western world and a model for scientists in other fields to follow. The University congratulates him for his immense contributions to the world of science.

The Graduate School

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Doctor of Philosophy

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- Yinsheng Shueh**, Taipei, Taiwan, R.O.C.; B.S. (National Tsing-Hua University); M.E. (National Sun-Yat-Sen University); *Metallurgical Engineering*
- Patricia Grant Slipka**, Huron; B.S.N. (Bowling Green State University); *Nursing*
- Susan Gunlock Smiley**, Dublin; B.S.N. (Otterbein College); *Nursing*
- Bharath Srinivasan**, Madras, Tamilnadu, India; B.Sc. (R.K.M. Vivekanada College); *OSU Biochemistry Program*
- Robert Edward Stakely**, Reynoldsburg; B.S.M.E.; *Mechanical Engineering*
- Jill Debra Steuer**, Columbus; B.A.Jour., B.S.Nurs.; *Nursing*
- Donald James Strausberger**, Dublin; B.S. (Southern Illinois University); *Electrical Engineering*
- Yousef Fouad Talic**, Saudi Arabia; B.D.S. (King Saud University); *Dentistry*
- Sunil Thadani**, India; B.Tech. (Indian Institute of Technology); *Computer and Information Science*
- Frank Joseph Thomas**, Girard; B.S.E.E.; *Electrical Engineering*
- Kenneth Michael Tischler**, Lakewood; B.S.Agr.; *Entomology*
- Jeffrey Tod Turner**, St. Louis, MO; B.S. (Kansas State University); *Geodetic Science and Surveying*
- Jeffrey Alan Ward**, Alexandria, KY; B.A., B.S. (Northern Kentucky University); *Mathematics*
- Carolyn Jean Wasson**, Canton; B.S.All'd.Hlth.Prof.; *Allied Medical Professions*
- Billy Ray White**, Houston, TX; B.S. (McNeese State University); *Chemical Engineering*
- Scott Allen White**, Sandusky; B.S. (The University of Toledo); *Chemical Engineering*
- Carolyn Josephine Wilczynski**, Perth Amboy, NJ; B.A. (Rutgers University); *Botany*
- Mark Leland Wilson**, Columbus; B.S.Agr.; *Agronomy*
- Randall Lee Wilson**, Columbus; B.A. (Capital University); *Pharmacy*
- Catherine Kovach Woskobnick**, Dublin; B.S. (Ohio University); *Computer and Information Science*
- Xiaojun Wu**, Wuhan, Hubei, P.R.C.; B.S. (Wuhan University); *Physics*
- Chun-Yung Steve Yang**, Taipei, Taiwan, R.O.C.; B.S. (Fu-Jen University); *Horticulture*
- Ilhami Yildiz**, Ballibaba, Ankara, Turkey; B.S., M.Sc. (University of Ankara); *Agronomy*
- Shwu Hwa Yu**, Hsinchu, Taiwan, R.O.C.; B.S. (Chiao Tung University); M.S. (National Chiao Tung University); *Computer and Information Science*
- Xiong Yu**, Shanghai, P.R.C.; B.A. (East China Normal University); M.S., Ph.D.; *Microbiology*
- Yahui Zhu**, Xian, P.R.C.; B.S. (North West Telecommunication Engineering Institute); *Computer and Information Science*
- Steven Craig Zuckerman**, Beltsville, MD; B.S. (University of New Hampshire); *Geodetic Science and Surveying*

Master of Social Work

- Karen Massa Beardman**, Columbus; B.A.; *Social Work*
- Patrice Ellen Moore**, Delaware; B.S.Occ.Ther.; *Social Work*
- Soon-Young Won**, Seoul, South Korea; B.A. (Yonsei University); *Social Work*

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Chairman, Coordinating Council of Deans:
Joan Huber

Acting Dean for Undergraduate Studies:
Donald W. Good

The Colleges of the Arts and Sciences, a federation of five colleges, includes:

College of the Arts
College of Biological Sciences
College of Humanities
College of Mathematical and Physical Sciences
College of Social and Behavioral Sciences

College of the Arts

Acting Dean: Robert L. Arnold

Bachelor of Arts

Jeffrey William Bonaventure, Columbus
Scott Alexander Bowman, Chagrin Falls
Robert L. Bradley, Amherst
William Andrew Drol, Tallmadge
Suzanne Estelle Dye, Columbus
James Joseph Kiraly, Cleveland
Stephen Edward Murphy, Columbus
Christopher Byron Reddick, Toledo
James Theodore Smith, Danville
Jennifer Carol Songster-Burnett, Columbus
Linda Lee Tudico, Granville
Pamela Joy Willits, Fairview Park

Bachelor of Fine Arts

Barbara Jean Bear, Columbus
Denise Ellen Cerreta, Canton
Joseph Edward Dixon, Columbus
Bonnie Lou Fausnaugh, Marion
David Jay Lander, Pittsburgh, PA
Terry Lee Mead, Whitehouse
Eric Kenneth Meiners, Columbus
Gail Richards Miller, Powell
Thomas Douglas Reese, Cincinnati
Milo Jon Stroud, Fremont

Bachelor of Music

Lauren Ann Broglia, Canonsburg, PA
Christopher Charles McCourry, Canton
Aram Hagop Tchobanian, Columbus

Bachelor of Art Education¹

Nancy Sue Cannon, Worthington
Tamera Fuller Diehl, Columbus
Bruce Anthony Hacker, North Lawrence
Darien Marie Veri, Columbus

Bachelor of Art Education²

Melinda Jeanne Fry, Richwood
Patricia Jean Harloff, Columbus
Lori Christine Hart, Lima
Andrew Lawrence Moffatt, Columbus
Michelle Marie Needles, Marion

Bachelor of Music Education²

Patrice Anne Nuber, Columbus
Stacey Renee Phillips, Germantown
Susan Adele Shipman, Worthington
Lynn Marie Stienecker, Worthington
Yao Wu, Taipei, Taiwan, R.O.C.

Bachelor of Science in Audio Recording

Stephen H. Albanese, Jessup, PA
James Edward Freeman, Columbus
Dale Andrew Peak, Avon

Bachelor of Science in Industrial Design

Paul Brian Leighton, Cincinnati
Christine Ann Myers, Worthington

College of Biological Sciences

Dean: William A. Jensen

Bachelor of Arts

D. Patrick Donston, Youngstown
Jill Ren  Lewis, Hoboken, NJ

Bachelor of Science

Robert Lindsay Apke, Cincinnati
David Herbert Brown, Worthington
Anthony Louis Capasso, Cleveland Heights
Brenda Sue Clady, Galion
Christopher Merle Clantz, Newcomerstown
Daniel David Coovert, Washington, IL
Terri Lynne Jones, Grafton
Karen Marie Kieffer, Cincinnati
Marilyn Sue Leezer, Columbus

¹Offered by the College of the Arts

²Offered by the College of the Arts and the College of Education

Mark Edson Lewis, Hoboken, NJ
Andrew John Magisano, North Canton
Kathleen Marie Maloney, North Syracuse, NY
Staci Ruth McWhirter, Marietta
Laura Ann Nemeth, Bedford
Douglas Paul Salamon, Akron
Michael Gregory Tokman, Lyndhurst
Christy Michelle Turner, Proctorville
Michael Wayne Warnke, Napoleon
Kurt Alan Wright, Upper Arlington

College of Humanities

Dean: G. Micheal Riley

Bachelor of Arts

Douglas Anthony Barger, Cincinnati
Ricky Ricardo Beacham, Youngstown
Denise Renee Beatty, Massillon
Joseph William Bettinger, Toledo
Stanley J. Blevins, Columbus
Deloris Marshall Bosley, Columbus
Marlyn Ann Broadwater, Elyria
Jon David Chappelle, Gahanna
Debra Ann Chrisman, Granville
Matthew Alex Dowds, Shelby
Thomas More Downey, Worthington
Coy Finley Franklin, Worthington
Joanne Carol Gilbert, Middletown
Sherry Kay Hall, Warren
Rosemary Virginia Hathaway, Bexley
Heidi Anne Herman, Lakewood
Jennifer E. Hunt, Paulding
William Sylvester Ireland, Columbus
Jack Lee Johnson, Milestone, KY
Laura Lynn Kincaid, Strongsville
Laura Sue Larrimer, Columbus
Robert Lynn Leonhard, Columbus
Mona B. Manhal, Cincinnati
Steven Glenn Marak, Oxford
Marshall Scot McCormick, Columbus
Mark S. Mellenger, Buffalo, NY
Cheryl Ann Myers, Columbus
John G. Nemnich, Columbus
Eric Allen Oaks, Centerville
Anthony Joseph Piloseno, Pittsburgh, PA
Mark Edward Rice, Reedsville
Susan Marie Robbins, Sidney
Holly Ann Robinson, Columbus
Mark Edward Robinson, Westerville
Pamela Sue Roloff, Randolph
Jennifer Susan Stasinopoulos, Columbus
James Reid Stoner, Rushsylvania
Thomas Davis Sydnor, Jr., Dublin
Elizabeth Anne Tanquist, Columbus
Terry Lynn Taulbee, South Lebanon
Christopher John Tihiinen, White Plains, NY
Deborah Gay Weaver, Winfield, WV
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College of Mathematical and Physical Sciences

Dean: C. William Kern

Bachelor of Science

Karen Catherin Briley, Perrysburg
John Gerard Cogan, Kettering
Bradley Bud Craig, North Canton
Randall Joe Fehdrau, Columbus
Mark Landon Fogwell, Columbus
Christina Sue Grear, Zanesville
Steven Michael Gross, Westerville
Christopher Michael Gurrei, Amherst, NY
Andrew Wade Hawk, Loveland
Stephen Paul Hess, Elyria
Mary Ellen Humenick, Columbus
Kenneth Scott Johnson, Fostoria
Miriam Faith Johnson, Columbus
King Lun Allen Lo, Hong Kong
Mark Andrew McGuire, Langsville
Stephen Wesley Ryan, Ravenna
Scott Matthew Scheblo, Dayton
Karen Joyce Schimpf, New Washington
Maria Louise Schumann, Cridersville
Karalee Renee Siesel, Bellevue
Karen Sue Snelko, Brunswick
Michael Philby Sparrow, St. Clairsville
Jeffrey Todd Williams, Columbus
Robert Mark Workman, Middletown

College of Social and Behavioral Sciences

Dean: Joan Huber

Bachelor of Arts

Valerie Margaret Acton, Bexley
Phillip Lord Allar, Columbus
Vicki L. Allen, Groveport
Kimberly Denise Anderson, Berea
Carl Franklin Angel, Jr., Jackson
Joseph Dale Appelhans, Pemberville
Margaret Mary Arnold, West Lafayette
Gail Ann Bailine, Westlake
John Vincent Bennett, San Diego, CA
Molly Ruth Benson, Columbus
Robin Ivy Berlin, Akron
Susan Michelle Betz, Maumee
Holly Lynn Bisutti, Union City
David John Bowers, Lancaster
Regina Marie Bronson, Columbus
Brenda Ann Burchfield, Toledo
David Michael Busick, West Milton
Edward Henry Carnes, Elida
Tina Lesley Carper, Marion
Maria Lynn Carr, Newark
Rachelle Maria Changet, Canton
Collette Ann Coffman, Upper Arlington
Andrew N. Colvin, Columbus
Darren Scott Cooper, Centerville

Lori Lynn Czeck, Niles
Dirk Daren Defenbaugh, Columbus
Karleen Renee Deken, Copley
Douglas Eugene Doherty, Columbus
Michael Kurt Ehrmann, Waterford, MI
MaryEllen Eiermann, Euclid
John George Flais, Alliance
Patricia Marie Foley, Columbus
Christopher Lance Fraley, Kenton
James Edward Gardner, Akron
Courtney Blair Gasper, Alexandria, VA
Christopher P. Gilkerson, Worthington
Stefanie Lynn Goldberg, Bexley
Robert Wesley Grow, Mansfield
Daniel Patrick Grueter, Akron
Ayman Abdel-Razik Hamed, Cairo, Egypt
Susan Lynn Hamilton, New London
Richard Alan Hannon, Lexington
Kathleen Theresa Harkin, Granville
Steven Cameron Hartshorn, Columbus
Robert David Hays, Upper Arlington
Lilian Joan Helser, Columbus
Michelle Dawn Heritage, Westerville
Stephen Alan Hill, Fort Walton Beach, FL
Virginia Ann Hoffman, Mansfield
Altrece Monsha Hogans, Columbus
Theodore William Hoying, New Bremen
Christina Anne Huntley, Canton
Robert K. Huxtable, Cathedral City, CA
Michele Elaine Jaynes, Worthington
Kenneth Butler Johnston, Columbus
Christy Elizabeth Jones, Westerville
Wendy Elizabeth Kail, Pepper Pike
Thomas Luke Kauchek, Seven Hills
Sylvia Sue Knoetze, Pickerington
Diane Carol Kubit, Brook Park
Sontha Lamgaday, Middletown
Bridget Kathleen Lear, Lyndhurst
Joseph Newton Leo III, Shaker Heights
James Benjamin Lewis, Shaker Heights
Jeri Ann Little, West Jefferson
John W. Lopez, Lorain
Christine Marie Loscko, Columbus
Geoffrey Anthony Mangino, Cleveland Heights
Jacqueline Marie Marchan, Upper Arlington
Brian Patrick Marzano, Cincinnati
Scott Michael Maurer, New Philadelphia
Patricia Marie McCormick, Warren
Stanley John McDonald, Cleveland
Eric Albert Megger, Mansfield
Laura Lynn Meister, Mansfield
Elise Arla Mellner, Baltimore, MD
David Michael Miller, Columbus
Cynthia Ariene Mong, Mansfield
Deborah Lynn Moore, Columbus
John Douglas Moore II, Shaker Heights
Bonnie Marie Morrissey, Lima
Stephen John Mosaic, Columbus
Karen Deloris Moss, West Salem
Kevin Gene Myers, Columbus
Joseph Charles Nahay, Columbus
Maria Viktoria Nilsson, Carmel, NY
Ronald Anthony Noel, Olmsted Falls
Timothy Robert Obringer, New Washington
Peri Ann Otterstrom, Bethel, CT
Sheryl Ann Pacula, Berea

Chih-Yun Pan, Taipei, Taiwan, R.O.C.
Craig Randal Phelps, Columbus
Paul A. Poland, Cincinnati
Sheryl Louise Prior, Vandalia
Mark Michael Reilly, Strongsville
Suzanne Isobel Robertson, Dayton
Diana Lynn Savage, Crooksville
Julia Marie Schottelkotte, Cincinnati
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Lisa Eileen Schwartz, Dover
Mark Adam Schwartz, Cleveland
Linda Carol Servais, Maumee
Michael John Shaheen, Westerville
Linda Sinoway, Bexley
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Thomas William Slagle, Cincinnati
Paula Ann Smigelsky, Maple Heights
Laura Anne Sosna, Columbus
Dana Marie Stewart, Columbus
Joseph William Stowell, Jr., Louisville
Magnus James Sublett, Newark
Richard Joseph Szulewski, Worthington
Stephen Anthony Tamburello, Painesville
Sandra Elaine Trbovich, Canton
Fonda Christine Trogus, Okemos, MI
Elizabeth L. Ulrich, Oregon
Brenda C. Voshell, Marion
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Janice Marie Walls, Columbus
Kevin Patrick Walter, Akron
Christina Dawn Warg, Columbus
Robert Grayum Watts, Columbus
Timothy James Williams, Dublin
Annette M. Wilson, Columbus
Laura Sue Wise-Blau, Columbus
Julia Marie Woodruff, Columbus
Susan Marie Zelinski, Urbana

Bachelor of Science

Christina M. Antenucci, Warren
Mary Ruth Berrey, Granville
Claire Sommerlea Callagher, Guelph, Ontario, Canada
Kenneth Michael Carley, Groveport
David Anthony Cheney, Beaver Creek
Michael Anthony Combs, Cincinnati
Stacy Elyce Diamond, Pepper Pike
Nizam H. El-Khatib, Columbus
Steven Thomas Fiorino, Beaver Creek
Steven Charles Hartstein, Beachwood
Daniel Adam Herschler, Columbus
Sun Ryung Lee, Columbus
Michael Earl Lemley, New Albany
Gürhan Öztunç, Adana, Turkey
Richard Douglas Shemanski, Worthington
Herschel Allen Spears, Columbus
Dirk Hans Van Nedeveer, Columbus
Deborah Gay Weaver, Winfield, WV
Jeffrey Michael Zerla, Dillonvale

School of Journalism

Bachelor of Arts in Journalism

Robin Marie Bennett, Franklin
Leah Rae Bibbo, Tiltonsville
David Clayton Bodemer, Mentor

Tracie Lynn Borstelman, Napoleon
 Stuart Mark Castergine, Marlboro, NJ
 Tracy Leigh Coburn, Gahanna
 Donald Lee Crouse, Allegany, NY
 Michael Alan Demana, Columbus
 Rebecca Donlon, New Albany
 David Charles Esmond, Upper Arlington
 Lisa Susan Feldman, East Brunswick, NJ
 Michael Alan Flegle, Canal Winchester
 Beth Ann Gamary, Lakewood
 Coleen Molly Gior, Attica, NY
 Randy Lee Golenberg, Pepper Pike
 Carina Dawn Hansen, Columbus
 Michelle Renee Howland, Columbus
 John Stevens Hulst, Columbus
 Eric Ray Johnston, Gahanna
 Melinda Sue Kincaid, Columbus
 Elizabeth Lee Kirchner, Columbus
 Jennifer Lee Kofoed, Medina
 Matthew Lerch, Hillsboro
 Kathryn Brent Marston, Brunswick
 Raissa L. Martin, Uniontown
 Anne Marie Meyer, Worthington
 Mary-Jo Mostowy, North Canton
 Noreen Lynn Mulcahy, Parma
 Ellen Robin Murray, Lebanon
 Janet Elaine Nickerson, Columbus
 Patrick John O'Bryan, Cincinnati
 James Scott Pearsall, Kettering
 Amy Page Phelps, Fairfield
 Christine Louise Pool, Toledo
 Terry Michelle Rosen, Cincinnati
 Manuel L. Silverio, Madrid, Spain
 Kelly Sue Smith, Portsmouth
 Victor Allen Smith, Amherst
 Daniel Brian Stadler, North Royalton
 Karen Leslie Stern, Farmington, CT
 Gino Mario Tomaro, Seven Hills
 Sue Ann Trimbach, Vandalia
 Diane Lynn Trivers, Cleveland
 Geraldine Robyn Tutty, Parsippany, NY
 Alan Darryl VanderMolen,
 Springfield, VA
 David John Verdon, Granville
 Mary A. Vernau, Newark
 Judy Ellen Wagner, Grove City
 Timothy Michael Wagner, Lima
 John Michael Wallach, Dayton
 Christopher Lee West, Columbus
 Todd Jeffrey Whited, Hamilton
 Brianne Marie Yontz, Cambridge

College of Agriculture

Dean: Frederick E. Hutchinson

Bachelor of Science in Agriculture

Annette Marie Anderson, Columbus
 Kenneth Michael Armstrong, Cleveland Heights
 Stu Brian Bechtler, Mansfield
 David Allen Bonnett, Wakeman
 Johnna Louise Bostdorff, Bowling Green
 Henry Martin Brady, Granville
 Susan Elaine Burton, Okeana
 Cynthia Lynn Cooper, Springfield

Steven Rudolph Denes, West Jefferson
 James Edward Eimermacher, Cincinnati
 Jon Alan Everett, Sidney
 Gregory Richard Eyer, Bucyrus
 Thomas Eugene Freisthler, Botkins
 Kirk Clinton Gibbs, Bellevue
 Dale Robert Gilliland, Nevada
 Barbara Jane Graham, Fostoria
 Duane E. Harper, Columbus
 James Gerard Heydinger, New Washington
 Matthew William Holmes, Perrysville
 Jeffrey Lynn Horn, Cadiz
 Lori Lynell Hough, Delaware
 Stephen David Keiter, Wilmington
 Rosalie Marie Keller, Marion
 Mary Denise Korb, Hamilton
 Martin Rindge Lambert, Peebles
 Linda Leigh Lashley, Xenia
 Lisa Anne Lawson, Carrollton
 Donald Edwin Longwell, Jr., Grafton
 Michael Brian Maguire, Whitehouse
 David Reynold Mellor, Piqua
 Matthew Todd Moore, Leesburg
 Carissa Lynn Nichols, Tipp City
 Gregory Scott O'Brien, Chagrin Falls
 Deborah Kay Pitsinger, Huron
 Debora Ann Reichert, Gomer
 Teresa Jo Roll, Jamestown
 Mark Gerard Rospert, Norwalk
 Jean Marie Royer, Columbus
 Gregory Peter Santulli, King of Prussia, PA
 Kenneth Lawrence Scaife, Tiffin
 Matthew Larry Schaller, Waterville
 Michael Theodore Stute, Springfield
 Kris Leonard Taylor, Olmsted Falls
 Douglas William Thiessen, Canton
 David Curtis Thomas, Columbus
 Daniel Vincent Utrecht, Oregonia
 Nicholas William Vandervort, Sabina
 Rene Michelle Walen, Powell
 Daniel Lee Ward, Shadyville
 William Todd Warner, Columbus

Bachelor of Science in Food Science

Jennifer Vernice Williams, Cincinnati

Bachelor of Science in Food Technology

Mark Nathan Dowdell, New London

School of Natural Resources

Bachelor of Science in Natural Resources

Karen Lynn Anderson, Columbus
 John Eugene Binegar, Loveland
 Matthew Dean Cnblez, Ada
 Duane Ward Drozdowski, Broadview Heights

Kent Steven Ellermets, Columbus
 John Montford Erlsten, Galion
 Karen Marie Fedor, Medina
 Scott David Fletcher, Enon
 James Curtis Grainger, Tipp City
 Tanya Caroline Hirst, Akron
 Sherrie Lynn Husted, Atwater
 Jeffery Randall Johnson, Lancaster
 Lorraine Annette Moses, Bucyrus
 Fred James Noel, Fostoria
 David Allen Nussbaum, Beavercreek
 Susan Marie Ream, Xenia
 David Ray Sarafin, Columbus
 Joseph Trevor Sedlock, Columbus
 Michael Stephen Simonik, Cleveland
 Kenneth John Urbanek, Canal Fulton

Agricultural Technical Institute - Wooster

Associate in Applied Science

Aaron Dale Asmus, Haskins
 Kevin James Ciptak, Cuyahoga Falls
 Kevin Michael Crawford, Fairview Park
 Vincent Anthony De Pasquale, Canton
 Kevin Karl Dircks, Huron
 Dennis James Ferguson, Massillon
 Kenneth J. Graf, Rudolph
 Katherine Theresa Heintel, Chagrin Falls
 Jane E. Kehl, Louisville
 Alan John Mayo, Flushing
 Stephen Edward McConnell, New London
 Alan Thomas Metzcar, Greenville
 Timothy William Nickles, Loudonville
 William Carl Oswald, Toledo
 Tina Marie Patyk, Parma Heights
 Corrina Ann Pento, Masontown, PA
 Lawrence Irwin Reaven, Akron
 Cynthia Jean Saling, New Philadelphia
 Andrew Dale Ware, Quaker City
 Susan Marie Weitzel, Doylestown
 Kris Noel Zimpfer, Whitehall

College of Business

Dean: H. Justin Davidson

Bachelor of Science in Business Administration

Brian Gregory Adams, Columbus
 Drew James Adler, Walton Hills
 Stephen Andrew Allamanno, Columbus
 John Randal Allen, Columbus Grove
 Hilary Marie Amling, Upper Arlington
 Elkin Adolfo Anaya Diaz, Medellin, Colombia
 Adam Foster Anderson, Columbus
 Karna Ingeborg Anderson, Columbus
 Christopher Layne Angles, Lithopolis
 Daniel John Anspach, Port Clinton
 Mulualem Biru Asefa, Gondar, Ethiopia

David Nixon Ashe, Akron
 Kimberly Louise Auer, Westerville
 Linda Kaye Austin, Columbus
 C. Todd Bailey, Westerville
 Krista Kay Bailey, Englewood
 Jolie Christine Baker, Kent
 William Michael Balaun, Akron
 Beth Anne Bame, Elida
 James M. Barnett, Columbus
 Scott V. Barrett, Lakewood
 Laura Ann Barringer, Portsmouth
 Kent Wesley Bartolf, Lima
 Renée Louise Beauregard, Lakewood
 Kelli Lyn Beckett, Findlay
 Kyndall Judith Beery, Canal Winchester
 Kim Jones Belcastro, Dayton
 Brian T. Bergman, Worthington
 Paul Charles Bernard, Columbus
 Gary Lee Bettac, Mansfield
 Donald William Betts, Reynoldsburg
 Gregory Andrew Biersack, Bradenton, FL
 Scott David Blaushild, Los Angeles, CA
 Scott B. Blumenthal, Boca Raton, FL
 Nicholas Michael Boicheff, Orange Park, FL
 Jacqueline Anne Bores, Strongsville
 Robert Christopher Borghese, Columbus
 Walter Eugene Bowers, Jr., Milford Center
 Jill Lynne Boy, Pittsburgh, PA
 Catherine D. Bozeman, Columbus
 Elizabeth Ann Brainard, Fairborn
 Jonathan Ames Bremer, Columbus Grove
 Franklin Delano Brewer II, Newark
 Karen Sue Brooke, Circleville
 Thomas W. Brookover II, Wheeling, WV
 John W. Brooks, Delaware
 Gregory Alan Brown, Bellefontaine
 Alan Pierce Brubaker, Cuyahoga Falls
 Todd William Brucchiari, Middleburg Heights
 Bryan Karl Bruder, Fairborn
 Bill G. Burden, Jr., St. Marys
 Monica Eileen Butler, Dover, PA
 Kimberly Gail Byrd, Columbus
 Robert Keith Calaway, Marion
 Walter Donald Callam, Lyndhurst
 Anthony Paul Campagni, Worthington
 Joan E. Campbell, Newark
 Juan Diego Cardenas Alvarez, Medellin, Colombia
 Keith William Carle, Minerva
 Daniel Leon Caron, Granville
 Christopher Todd Carson, Westerville
 Grace Unchu Chang, Gahanna
 William Oresti Chappel II, Wyoming
 Michael Alexander Chekanoff, Akron
 Conlee Cheng, Medina
 Jacqueline Ann Christ, Gahanna
 Christopher John Ciehanski, Sagamore Hills
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 Vincent Martin Conner, Dayton
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 Elissa Suzanne Courtney, Poland
 Kevin Dean Cox, Columbus

Gregory Bernard Crafter, Long Beach, CA
 Daniel Joseph Crawford, Lima
 Connie Lee Cull, Marion
 Alan James Czako, Delaware
 Linda Ann Dagnall, Westerville
 Bryan Joseph Davis, Columbus
 Michael Stuart Davis, Sylvania
 Thomas Scott Davis, Columbus
 Edward Arthur Dayton, Danbury
 Charles Anthony Deidesheimer, Cincinnati
 Anthony Michael DeLuca, Monmouth Junction, NJ
 Mark Robert Dobie, Sharon Center
 Matthew Henry Doerfler, Cambridge
 Kathleen Joan Doherty, Geneva
 Lisa Ann Duco, Columbus
 Robert James Duncan, Dublin
 Karen Elizabeth Dunlevy, Worthington
 Ted Joseph Dyrdek, Jr., Beverly
 Daniel Robert Ebin, Cleveland
 Dennis C. Edwards, Jr., New London
 Robin Marie Eischen, Sheboygan, WI
 Sharon Beth Eiser, Toledo
 Denis Wayne Ellinger, Ohio City
 Trent Alan Emig, Columbus
 Douglas Matthew England, Columbus
 Alfred Ray English, Newark
 Joseph L. Erhart, Kalida
 Susan L. Evans, Wellston
 E. Andrew Ey, Columbus
 Bernard Fredrick Faldowski, Jr., Rayland
 Thomas George Fallidas, Columbus
 Thomas Michael Farwick, Worthington
 Julia Cecilia Fasone, Columbus
 John Jeffrey Ferencz, Avon
 Ellen Marie Ferguson, Columbus
 Helen Beth Ferrall, Cuyahoga Falls
 Richard Thomas Ferris, Columbus
 Karen L. Ferry, Lexington
 Michelle Renée Fidak, Wintersville
 Lucia Maria Fierro, North Canton
 Gwen Patrice Fillingier, Lancaster
 Mark Allen Finnegan, Toledo
 Philip Dale Fisher, Wapakoneta
 David Roger Fogarty, Chagrin Falls
 Keith John Folman, Warren
 Don Belford Foster, Columbus
 Molly Lee Frederick, Columbus
 Brian D. Frost, Brookpark
 Charles Joseph Gacek, Middleburg Heights
 Sharon Lynne Galik, Brecksville
 John F. Gallagher, Youngstown
 Joseph Frank Garber, Columbus
 George K. Gesouras, Columbus
 Daniel Charles Gesting, Cincinnati
 James Douglas Gibeau, Upper Arlington
 Scott Douglas Girard, Chagrin Falls
 Jennifer Elaine Gischel, Columbus
 James Joseph Goodman, Chagrin Falls
 Lee Jay Goodman, Newark
 Joseph William Gray IV, Sylvania
 Snezana Grbevaska, Columbus
 Jane Suzanne Grosh, Worthington
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 Tim James Haller, Columbus
 Christopher George Harris, Columbus
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 Alan Dean Hinson, Pataskala
 Gary Todd Hitzemann, Worthington
 Mark Richard Hoffmann, Worthington
 David Noel Hohenstul, Doylestown
 Burgess Lloyd Holt, Medina
 Matthew P. Hoover, Dublin
 Melanie Sue Howell, Worthington
 Mitchell Kent Hurst, McConnelsville
 Todd Porter Iden, Mt. Perry
 Kari Lynn Irvine, Celina
 Vijaya Iyer, Worthington
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 Michael Jones, Cincinnati
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 Jeff A. Keegan, Vickery
 Kenneth M. Keim, Hamilton
 Martin Joseph Kelly, Cincinnati
 Timothy S. Ketcham, Columbus
 Terrence Thomas Kilbane, North Olmsted
 Kum O. Kim, Xenia
 Jeffrey Scott Kirkkey, Columbus
 David Brian Knox, Columbus
 Michael Allen Koler, Parma
 Robert Charles Korn, Wheaton, IL
 Karen Lea Langford, Columbus
 Michael David Langwasser, Columbus
 Thomas Anthony George LaPolla II, Niles
 Lynette R. Lauletta, Pataskala
 John Wesley Layton, Prospect
 Steven Michael Lee, Newark
 Angela L. C. Lim, Hong Kong
 Gwen Ming-Kuan Lim, Taipei, Taiwan, R.O.C.
 Siew Choo Lim, Johor Bahru, Johor, Malaysia
 Tian Hong Lim, Georgetown, Penang, Malaysia
 Lori Ann Limbers, Reynoldsburg
 Brent B. Liming, Akron
 Suzanne Kaye Lippiatt, Salem
 Rissa Lynn-Patrick Long, Columbus
 George A. Loukousis, Athens, Greece
 William Thomas Malone III, Toledo
 Mary Ellen Manderson, Lexington
 Mark Andrew Manhart, Massillon
 Leigh Ellen Mann, Wickliffe
 David Thomas Marshall, Huber Heights
 John David Matiscik, Austintown
 David C. Matzenbach, Ashville
 Frank Patrick Mazzone, Beavercreek
 Joseph Frederick McCallister, Columbus
 Stephen John McClellan, Maumee
 Sean Patrick McCrate, Columbus
 Donald C. McElhaney, Jr., Barrington, IL
 Robert Paul McMurray II, Columbiana

Mary K. McPherson, Copley
 Todd Yancey McPherson, Cincinnati
 Ronald S. Melbourne, North
 Andover, MA
 Mark Alan Menges, Findlay
 Leslie Ann Merola, Powell
 Mark Hamer Merrilees, Mt. Vernon
 Celia M. Meshanko, Columbus
 Tara Marie Miljus, Dublin
 Fred Bodimer Miller II, Upper Arlington
 Robert Scott Minton, Columbus
 Gerald Anthony Mlachak, Euclid
 Steven Bradley Morris, Cambridge
 Michael John Mramor, Mayfield Heights
 Richard Leslie Murch, Worthington
 Mia Murphy, Columbus
 Rhonda Jane Murphy, Springfield
 Douglas James Niese, Wapakoneta
 Joanne Marie O'Hara, Kettering
 Gregory James O'Hare, Worthington
 Timothy M. O'Keefe, Newark
 John F. O'Neill, Westlake
 William Matthew Olson, Columbus
 Kathy Lynne Orvos, Uniontown
 Matthew Makoto Otani, Canton
 Jay Douglas Otto, Dayton
 Michelle C. Ours, Columbus
 Thomas Gregory Pabst, Worthington
 Ronny Michael Paelicke, Solon
 Michael Keith Palmer, Lima
 Giuseppe Parente, Middleburg Heights
 James Gregory Pasden, Columbus
 Christopher J. Peden, Bexley
 Ingrid Birgitte Penton, Lorain
 Lee Alan Peters, Grove City
 Douglas Kevin Petersen, Lodi
 Stephen Paul Plasko, Lexington
 Victor Alan Polen, Chillicothe
 Scott Lanning Porterfield, Sandusky
 Douglas Robert Potts, Dublin
 Teresa Nadine Prater, Alger
 J. Todd Price, Worthington
 William George Psychogios, Columbus
 Lawrence Robert Quandt, Willoughby
 Hills
 James Francis Racher, Upper Arlington
 Blake N. Radcliffe, Mt. Victory
 Ty Allen Ramsower, McCutchenville
 Gary Dean Ranchel, Elida
 Timothy E. Reid, North Royalton
 Mary L. Renner, Westerville
 Teresa Lynn Reuter, Westerville
 Paul Anthony Riedinger, Gahanna
 Amy Jo Rieff, Oak Harbor
 Todd James Ritzler, Fostoria
 Daniel Shore Robins, Columbus
 Heidi Kay Rollins, Liberty Center
 Donald Thomas Rothgery, Elyria
 Christopher John Rowland, Worthington
 Gail Leslie Ruben, Akron
 Guy M. Ruwe, Troy
 Steven Louis Salemi, Lyndhurst
 Christopher Malcolm Sayre, Cincinnati
 Linda Marie Scherman, Columbus
 Timothy Scott Schlachter, Toledo
 John Robert Schwendenman, Columbus
 Kevin E. Scott, Bath
 Michael Patrick Scott, Worthington
 Curtis Lee Shaffer, Kent

David Brian Shafron, South Euclid
 Brenda Jean Shannon, Columbus
 Sherien Sharaf, Westerville
 John J. Shevlin, Columbus
 Sharon Lynn Shiffler, Chardon
 Charles Mouchul Shin, Columbus
 Steve Alan Siefing, New Weston
 David Lance Siler, Hilliard
 Patricia Ann Sirb, Amherst
 Mary Katherine Smith, Jeromesville
 Robert Leslie Smith, Steubenville
 Allison Faye Sommers, Westerville
 Patrick Edward Spence, Toledo
 Phillip Jeffrey Spring, Columbus
 David Allen Stahler, Chesterland
 Dag Stensby, Columbus
 Richard A. Stinson, Columbus
 Scott Andrew Strutner, Columbus
 Timothy John Suess, Cincinnati
 Kathleen A. Sutherland, Niles
 Susan Kay Sybert, Lima
 Siaw Hui Tan, Singapore, Singapore
 Gregory Allen Tantari, Toledo
 William Scott Taylor, Columbus
 David Andre Thaeler, Mentor
 James J. Thomas, North Canton
 Mary Pat Tillman, Springfield
 Richard Charles Torgerson, Sagamore
 Hills
 Lily Toy, Cleveland
 Kerry Robin Truckly, Heath
 Joyce Ann Turner, Fort Loramie
 Kenneth Andrew Turner, Columbus
 Douglas J. Uhlenhake, Newark
 Diana Lynn Unterzuber, Bellaire
 Ali Khan Vardag, Karachi, Pakistan
 Lawrence Will Venetta, Warren
 Laura Elizabeth Walen, Powell
 William B. Walker, Shaker Heights
 Michael Hamner Walter, Columbus
 Allen Douglas Wandle, Mt. Vernon
 Jeffrey Ray Ward, Lima
 Miriam Faye Warm, Cincinnati
 Christopher Michael Watson, Columbus
 Timothy C. Weithman, Worthington
 Myeong O. Wellington, Columbus
 John Robert Wells, Mt. Vernon
 Daniel B. White, Worthington
 Vincent Robert Wilkins, Newark
 Kelly J. Willer, Columbus
 Richard Randolph Willison, New
 Lexington
 Jack Alan Wisman, Columbus
 William Marvin Wolff, Toledo
 Michael F. Wood, Cleveland
 Robert Anthony Wood, Cincinnati
 Danny E. Wray, Jr., Shelby
 Lisa Ann Wright, Greenville
 Felix Wai-Lap Yan, Hong Kong
 Benjamin Yip, Honolulu, HI
 Karen Sue Young, Columbus
 Diane Kay Zeigler, Troy
 John Paul Zimmer, Columbus
 Lisa Angela Zito, Seven Hills
 David Matthew Zobrist, Dayton

College of Education

Dean: Donald P. Anderson

Bachelor of Science in Education

Renee Joanne Abbey, Medina
 Melissa Stephens Ashbaugh, Lexington
 Cathy L. Ault, Galion
 Ahmadu Abubakar Baba, Bauchi, Nigeria
 Deborah Lynn Bain, Cincinnati
 Jacqueline Baishanski, Columbus
 Ann Kathleen Bange, Hamilton
 Dave William Beaudin, Winnipeg,
 Manitoba, Canada
 Janet Jones Benedict, Columbus
 Relva Jean Blackstone, Hilliard
 Sandra M. Bolzenius, Columbus
 Michelle Lynn Bowers, Columbus
 Vicki L. Bowser, Columbus
 Ann Mary Bracale, Beachwood
 Robert Eugene Branch II, Columbus
 Robert Louis Brinkman, Fort Jennings
 Kerry Beth Buckholz, Middleburg Heights
 Tina Louise Buckmaster, Napoleon
 Scott Edward Clines, Euclid
 Dianne Louise Coffy, Carrollton
 Barbara Lee Crase, West Union
 Danny Charles Crawford, Jr., Minerva
 Kimberly Sue Cummings, Baltimore
 Alice Gail Day, Columbus
 Scott Arthur Dempsey, Columbus
 David Paul Denman, Marion
 Kathryn Edna Dent, North Canton
 Maureen Kay Derbyshire, Lima
 Sally Jane Drake, Granville
 Donna Jean Driskell, Batavia
 Dawnne Lynn Dyke, Westerville
 Susan Lynn Eisenmann, La Grange
 Loren Scott Ferguson, Grove City
 Lisa Kay Gibson, Plain City
 Kellie Jo Goffena, Fort Myers
 Michael A. Guess, Columbus
 Kimberly Anne Hall, Oreland, PA
 Nancy Cheryl Hall, Heath
 Howard Vincent Hartman, Largo, FL
 Mildred Faye Henderson, Shiloh
 William Keith Henning, Columbus
 Roberta Mae Herd, Sunbury
 John Thomas Hogston, Columbus
 Dean Robert Hoover, Columbus
 Mark Edward Johnson, Mansfield
 Deborah Anne Kaufman, Columbus
 William Blake Kindie, Alger
 Colleen Therese Kinney, Strongsville
 Kelly Baker Kralik, Marysville
 Sheila Cathryn Leaf, Mansfield
 Monica Antonia Linson-Fillmore,
 Cincinnati
 Peggy Jo MacWood, Columbus
 Christopher Robert Maisenbacher,
 Columbus
 Barbara Ellen Marte, Delaware
 Marti Elora McGuffin, Dublin
 David Edward Metzger, Shelby
 Bradley J. Miller, Greenwich
 Rodney Dean Miller, Reedsville
 Lisa Marie Mohos, Middleburg Heights

Stacy Ann Moore, Mansfield
 Rebecca Joann Murray-Beck, Lowell
 Cheryl Ann Myers, Columbus
 Karen Marie Nadolson, Hebron
 Edith Ann Newell, Columbus
 Melanie Rose Nixon, Lima
 Julie Ann O'Bryan, Columbus
 Jennifer Lynn Ormsby, Columbus
 Nina Sue Owens, West Lafayette
 Shawn Fitzgerald Parker, Columbus
 Marc Evan Parsley, Canal Winchester
 Kathleen Ann Patterson, Hilliard
 Christine Marie Payne-Butler, Danville
 Rita Joan Phillips, Columbus
 Carmela Kay Pickens, Galion
 Maria Sheridan Pietila, Waverly
 Gregory James Plymale, Grove City
 Karen Ann Randall, Columbus
 Mary Teresa Ranke, Columbus
 Bret Jay Ray, Carrollton
 Martha Louise Reber, Upper Sandusky
 Patricia Mary Rieser, Columbus
 Lisa Beth Rinehart, Mt. Gilead
 Edwin Lee Roberts, Wilmington
 Ann Marie Salle, Columbus
 Linda P. Season, Columbus
 Michael Glenn Seiple, Willard
 Jay K. Shaffer, Lakeside
 Danladi Mwona Shamaki, Bauchi, Nigeria
 Douglas Wayne Short, Marion
 Richard James Simpson, Marietta
 Jacqueline Jeanne Simudz, Medina
 Marcia Jane Snively, Lexington
 Pamela Ann Spears, Thornville
 Michael Howard Strong, Hamilton
 Brenda Lyn Sweeney, New Albany
 Pamela J. Swert, Shelby
 Paula Jean Swick, Spencerville
 Rowland Sol Tatum, Inglewood, CA
 Angela Lorraine Tura, Pepper Pike
 James Giffen Walker, Columbus
 Franklin Eugene Wall, Columbus
 Karla Justine Warner, Carrollton
 Deborah Ann Weber, Mansfield
 Catherine Suzanne Wenning, Medina
 Cynthia Susan Whitney, Westerville
 Sandra Jean Whittington, Prospect
 David Stanley Wight, Wellington
 Michael Edward Wilson, Mansfield
 Molly Ann Young, Lancaster
 Linda Zahndt, Granville
 Bradley Paul Zubovich, Columbus

Bachelor of Art Education and Bachelor of Music Education degrees are offered jointly by the College of the Arts and the College of Education. Candidates are listed under the College of the Arts.

College of Engineering

Dean: Donald D. Glover

Bachelor of Science in Aeronautical and Astronautical Engineering

Thomas Russell Bennett, Columbus
 Michael James Corrigan, Solon
 Steven Scott Dean, Circleville
 William Douglas Thomas, St. Clairsville
 Russell J. Woeste, Bellbrook

Bachelor of Science in Agricultural Engineering

Thomas M. Anzalone, Chautauqua, NY
 Leopoldo Jose Becerra Vera, Caracas, Venezuela

Bachelor of Science in Aviation

Nicholas Arnold D'Ercole, Midlothian, IL
 Hai Hoang Do, Columbus
 Steven Michael Kirchmyer, Buffalo, NY
 Markson Richard Pansing, Delaware
 Jorge D. Polo, Lima, Peru
 Gregory Allen Rehard, Perrysburg
 Wisnu Bharata Waloejo, Jakarta, Indonesia

Bachelor of Science in Ceramic Engineering

Charles Lee Branch, Gahanna
 Todd Eugene Smith, Bucyrus
 Michelle White, Forsyth, GA

Bachelor of Science in Chemical Engineering

Daniel Lee Fullenkamp, Celina
 Daniel Brian Hartley, Rochester, NY
 Richard Alan Kelch, Newark
 Dallas Brian Noe, Shelby
 Jerry Lauren Rogers, Kenton
 Richard Paul Wagner, Cincinnati
 Jonathan Alan Wiseman, Pedro

Bachelor of Science in Civil Engineering

David Eugene Bame, Proctorville
 James Charles Block, Worthington
 Troy Kevin Branson, Chillicothe
 David Ulises Franco, Olmsted Falls
 Jeffrey Alan Holbrook, Columbus
 Nik Rahimi, Kamaluddin, Kelantan, Malaysia
 Charles J. Kiner, Columbus
 Jeffrey Alan Lackovic, Library, PA
 Cheng-Chuen Lim, Singapore
 Stacy Marie Manolakas, Farmington Hills, MI
 Kathryn Marie Paré, Dover, DE
 Robert Conrad Schreiner, Lakewood

Bachelor of Science in Computer and Information Science

Cheuk Wah Chan, Hong Kong
 David Alan Ellis, Newcomerstown
 Nancy Tung Kwan Eng, Columbus
 Stephen Thomas Falk, Lima
 Karen Louise Fulkerson, Troy

Scott Gerard Grubenhoff, Berea
 Thomas Floyd Harris, Columbus
 Kirt Matthew Henkel, Euclid
 William D. Henningsen, Bay Head, NJ
 Keith Allan Hocter, Dublin
 Dean Edward Jenkins, Parma
 Vidyaranya Kavita, Hospet, India
 Robert Allen Kucera, Chagrin Falls
 Craig Allen McNutt, Fairview Park
 Kermit Nelson Morse III, Marysville
 Khue Tai Ng, Singapore
 Gustavo Adolfo Pico, Bucaramanga, Colombia
 Jeffrey Robert Sherota, Columbus
 Charles Edward Shriver, Columbus
 Matthew David Smith, Columbus

Electrical Engineer

Majid Ali Khan, Columbus

Bachelor of Science in Electrical Engineering

William W. Allen, Santa Barbara, CA
 Ana Amicarella, San Cristobal, Venezuela
 Michael Andrew Anderson, Cleveland
 Keith Allen Bailey, Columbus
 Allan Berry Barlow, Wexford, PA
 John Thomas Bartucci, Stow
 Jonathan Earl Bentley, East Liverpool
 Mee Lun Chau, Columbus
 Yuan-Hsiang Chiao, Taipei, Taiwan, R.O.C.
 Thomas Michael Chirumbole, Orrville
 Lih Meng Chow, Kuala Lumpur, Malaysia
 Matthew John Englehart, Brook Park
 John Mandouh Girgis, Columbus
 Lawrence William Griffith, Crestline
 Jeffrey Lynn Hillis, Somerset
 Timothy David Kaiser, Xenia
 Ziad Hisham Katabi, Damascus, Syria
 John Matthew Landry, Kent
 David Russell Lazarony, Jr., Sandusky
 Ross Boyd Leavens, Iberia
 Deron Craig Littlejohn, Troy
 David Clyde Looney, Springfield
 Susan Marie Marusha, Chardon
 Divyesh Chandrakant Mehta, Bethel Park, PA
 Mohammad Reza Moghadassi, Shiraz, Iran
 Marc Lane Monnin, Olmsted Falls
 David Bruce Murray, Canfield
 Joel Lewis Nash, Gahanna
 Truong Xuan Nguyen, Columbus
 Vinh Xuan Nguyen, Columbus
 John Alvin Nye, Trinway
 Kenneth Benjamin Pepera, Middleburg Heights

Anthony Joseph Ricker, Dayton
 Joseph Anthony Saggio, Jr., Westlake
 Richard Robert Sating, Lakewood
 Kenneth Alan Smith, Mansfield
 Daniel Joseph Stevenson, Columbus
 Thomas George Stoll, Cleveland
 Kurt Allen Strickler, Ontario

Seng Kee Tan, Singapore
 Dante Antonio Ventresca, Columbus
 Christopher Craig Walls, Columbus
 Michael John Wellington, Granville
 Deirdre Lee Wenzel, Columbia Station
 Kam-Shing Yu, Columbus

Bachelor of Science in Engineering Physics

James Howard Burge, Cincinnati
 Timothy Mark Winkler, Heath

Bachelor of Science in Industrial and Systems Engineering

Timothy Scott Curtis, Canton
 James Walter Curski, Mansfield
 Linda Lee Henry, Apple Creek
 Jeremy Brant Johnson, Lakewood
 John Charles Lasch, Glenwillow
 Hengkie Liwanto, Jakarta, Indonesia
 Juan Manuel Llana, Grandview
 Dianne Clare Luebering, Cincinnati
 James Peter Mitchell, Marietta
 Diane Marie Schur, Parma
 Dawn Aleese Ward, Alexandria, VA

Bachelor of Science in Mechanical Engineering

Peter Andonellis, Mytilene, Greece
 Virgil Ray Barnes, Pleasant Plain
 Robert Joseph Benkowski, Worthington
 Michael James Coffy, Carrollton
 Bruce Martin Czwakiel, Beavercreek
 Todd Martin Fullenkamp, Fort Recovery
 Christopher Carl Hutras, Dover
 Chris Konstantacos, Canton
 Thomas Michael Krivanek, Parma
 Michael Andrew Lauer, Beavercreek
 Sally Anita Lee, Cincinnati
 Keith Martin Mantey, Cincinnati
 David Jeffrey Page, Kingsville
 Eric Daniel Ramseyer, Marshallville
 Gregory David Schilling, Gallion
 John George Schimpf, Jr., Cincinnati
 Roman Anthony Schwieterman, Middletown
 Teck Kong Sng, Singapore
 Timothy Alan Snyder, Marion
 Jon Alan Tinapple, Galloway
 Michael James Turanchik, Glen Rock, NJ
 Robert William Zesch, Cincinnati

Bachelor of Science in Metallurgical Engineering

Alan W. Gibson, Wintersville
 Alexander Stephen Reid, Canton
 Brett Allen Young, Glenmont

Bachelor of Science in Welding Engineering

Mark Allen Abram, Galena
 Kent Edward Blackmon, Columbus
 Anthony M. Cox, Vandergrift, PA
 Daniel Edward Day, Bellefontaine
 David Jonathan Keck, Fairfield
 Walter Kent O'Dell, Springfield

School of Architecture

Bachelor of Science in Architecture

Shane Milan Chandler, Beverly
 Kristine Marie Russell, Xenia
 Bryan Charles Sanbury, Elyria
 Brian Joseph Sell, Galena
 Joaquin Serantes, Miami Beach, FL
 David Allen Stubbs II, Gahanna
 Brian Michael Such, Rocky River
 Thomas Joseph Tremper, St. Henry
 Rebecca Rose Weisenthal, Montclair, NJ

Bachelor of Science in Landscape Architecture

Gayle Anne Kluener, Cincinnati
 Debra Lin Melzer, Columbus
 Judith Allary Vargo, Niles

College of Home Economics

Dean: Lena Bailey

Bachelor of Science in Home Economics

Lynn Michele Anderson, Columbus
 Joy Elaine Aveni, Lyndhurst
 Julie P. Bartick, Lorain
 Linda Lou Borelli, Columbus
 Juli Diane Brannon, Newark
 Janice Marie Bucher, Bay Village
 Toni Castricone Cheek, Worthington
 Tonya Lynn Clawson, Harpster
 Michelle Yvonne Cline, Westerville
 Lee Ann Connor, Columbus
 Elizabeth C. Cothern, Toledo
 Ann Louise Doty, Lynchburg
 Marilyn Denise Dougherty, Mt. Vernon
 Barbara Jo Farrell, Warren
 Susan Ann Federspiel, Cincinnati
 Gina Erna Gabriele, Lima
 Theresa Lorraine Gardner, Columbus
 Marcy Ellen Goldenberg, Columbus
 Lisa Marie Grasso, Lorain
 Thomas Paul Huenke, Columbus
 Mary Maureen Irwin, Lima
 Joan Elizabeth Italiano, San Francisco, CA
 Jill Lyn Jones, Akron

Carrie A. Kmet, Tallmadge
 Debra Ellen Laub, Columbus
 Regina Collette Lewis, Mayfield Heights
 Tina Marie LoBianco, Lima
 Katherine Schromm Lopez, Columbus
 Karen Alison Low, Dayton
 Laurie Renee Lyons, Columbus
 Scott B. McDonald, Tipp City
 Mary Elizabeth Merullo, Columbus
 Melissa Jean O'Neil, Columbus
 Rita Marie Origar, Worthington
 Michael George Petrosky, Columbus
 Kathleen Ann Pierson, Columbus
 Lisa Valerie Radkin, Kensington
 Anne Maria Rizzutti, Columbus
 Stacey Anne Rollins, Toledo
 Maria Dolores Salmon, Columbus
 Kathi Lynn Saylor, Greenville
 Catherine Mary Searry, Columbus
 Susan Marlene Schaefer, Cincinnati
 Tracy Marie Schenerlein, Columbus
 Jane Ford Schnackel, Canton, MI
 Dina Demetra Skelley, Urbana
 Dana Jay Smith, Columbus
 Johanna Elizabeth Smith, Circleville
 Janet Lynne Snively, North Canton
 Angela Dawn Spencer, Worthington
 Karmen DeNize Stewart, Lima
 Rebecca Ann Stoppelman, Dayton
 Sue Ann Stuckey, Upper Sandusky
 Susan Kaye Thompson, Lima
 Mary Ann Van Maele, Columbus

Bachelor of Science in Hospitality Management

Julie Marie Goddard, Cincinnati
 Jay Scott Grate, Huron
 Thomas Lee Grice II, Columbus
 Cynthia Sue Mercer, Bowerston
 Jeanne Mushahwar, Strongsville
 John N. Presutti, Columbus
 Lisa Jean Yeomans, Columbus

Bachelor of Science in Restaurant Management

Steven Michael Sand, Canton

College of Law

Dean: Francis X. Beytagh, Jr.

Juris Doctor

Jeffrey Middleton Basnett, Columbus
 B.A. (Howard University)
 Jean Marie Brandt, Parma
 B.A. (Cleveland State University)
 William Lewis Brown, Jr., Dayton
 B.A. (The College of Wooster)
 Beverly Jane Corner, Columbus
 B.A. (Cornell College)

Mary Elizabeth Gill, Reynoldsburg
B.A. (University of Cincinnati)

Diana Kay Harkness, Dublin
B.A.

Randall James Imwalle, Columbus
B.A. (University of Dayton)

Verdell Laverne Jordan, Columbia, SC
B.S. (University of South Carolina)

Suzanne Ellen Mohr, Portsmouth
B.Phil. (Miami University)

Suzanne Marie Stasiewicz, Columbus
B.A. (Ohio University)

Robert James Thomas, Van Wert
B.S.

Marci Renee Weston,
B.A. (University of Akron)

College of Medicine

Dean: Manuel Tzagournis, M.D.

Doctor of Medicine

Paula Anne Harvan, Lyndhurst
B.A. (John Carroll University)

Allison Lee Oldfield, Akron
B.S.E.E.

School of Allied Medical Professions

Bachelor of Science in Allied Health Professions

Tamblын Benton, Mt. Gilead
Susan Ellen Davis, Reynoldsburg
Elizabeth Ann Howell, Lima
Darla Elizabeth Kaikis, Gahanna
Cheryl Lynn Kelly, Dayton
Patricia Lynn Ludwig, Centerville
Joseph Paul Osenni, Columbus
Julianne Plocica, Concord Township
Robin Lynne Rhodes, Lancaster
Kim Marie Rice, Canton
Donna Lynn Rinaldi, Wickliffe
Larry Lee Schifer, Bucyrus
Geraldine Lee Urse, Columbus

Certificate of Post Baccalaureate Medical Technology

Lisa Ann Emrich, Austintown

College of Nursing

Dean: Carole A. Anderson

Bachelor of Science in Nursing

Barbara Jean Colavincenzo, Clyde
Elizabeth Audrey Edgar, Sylvania
Jeanne Royann Green, Zanesville
Sharon Ann Hoover, Marion
Chung Ying Kwo, Taiwan, R.O.C.
Charlotte Rose Luppino, Cleveland
Annette Sue Newman, Columbus
Julie Ann Otto, Huron
Anne Marie Pelini, Youngstown
Melanie Pepper-Greenberg, Columbus
Christopher Jeffrey Phillips, Columbus
Cynthia Matney Stone, Galena
Cynthia Diane Warden, Worthington

College of Pharmacy

Dean: Albert H. Soloway

Doctor of Pharmacy

Paul E. Michaels, Independence

Bachelor of Science in Pharmacy

Christopher Jon Bracale, Beachwood
Maria Trease Drabczyk, Hudson
Ali Mouhamed El-Jazzar, Tripoli, Lebanon
Julie Rebecca Faust, Canton
Barbara Elizabeth Grajzl, Chesterland
Diane Yuki Ishida, Columbus
Brian Philip Missler, Willard
Man Wai Thomas Pang, Hong Kong
Thomas William Schulte, Wapakoneta
Tanya Lynne Sfeir, Lorain
Sondra Lynn Smith, Fairview Park
Joni Alice Windesheim, Columbus

College of Social Work

Dean: Richard E. Boettcher

Bachelor of Science in Social Work

Jill Lurie Knisely-McKellop, Marion

College of Veterinary Medicine

Dean: Ronald A. Wright

Doctor of Veterinary Medicine

Carolyn Susan Pomeroy, Cincinnati
B.S. (Ohio Northern University)

Graduates with Honors

Criteria for graduating with honors are as follows:

With Distinction requires successful completion of a Senior Honors Thesis, oral examination, and graduation in the top 25% of the class.

With Honors in the Liberal Arts requires successful completion of the Arts and Sciences Honors Contract and graduation in the top 25% of the class.

Cum Laude designates those graduating in the top 10% of the class.

Summa Cum Laude designates those graduating in the top 3% of the class.

With Distinction in Anthropology

Deborah Lynn Moore

With Distinction in Metallurgical Engineering

Brett Allen Young

With Honors in the Liberal Arts

Jon David Chappelle

With Honors in the Liberal Arts and with Distinction in English

Gretel Cunningham Young

Cum Laude

Stephen Andrew Allamanno
Hilary Marie Amling
Renée Louise Beauregard
Robin Marie Bennett
Joseph William Bettinger
Scott B. Blumenthal
Linda Lou Borelli
Vicki L. Bowser
Catherine D. Bozeman
Joan E. Campbell
Anthony Louis Capasso
Dianne Louise Coffy
Daniel David Coovert
Michael Alan Demana
Maria Trease Drabczyk
Sally Jane Drake
Daniel Robert Ebin
Robin Marie Eischen
David Alan Ellis
Joseph L. Erhart
Karen L. Ferry
Lawrence William Griffin

Tim James Haller
 Katherine Theresa Heintel
 William Keith Henning
 Stephen Paul Hess
 Keith Allan Hocter
 Melanie Sue Howell
 Mary Ellen Humenick
 Jennifer E. Hunt
 Kari Lynn Irvine
 Cheryl Lynn Kelly
 Kelly Baker Kralik
 John Matthew Landry
 Ross Boyd Leavens
 Tian Hong Lim
 Rissa Lynn-Patrick Long
 Charlotte Rose Luppino
 Joseph Frederick McCallister
 Donald C. McElhaney, Jr.
 Robert Paul McMurray II
 Rodney Dean Miller
 Cheryl Ann Myers
 David Jeffrey Page
 Douglas Robert Potts
 Gregory Allen Rehard
 Kim Marie Rice
 Linda Marie Scherman
 Karen Joyce Schimpf
 Linda P. Season
 Brian Joseph Sell
 John J. Shevlin
 Karen Sue Smelko
 Pamela Ann Spears
 Thomas George Stoll
 Kurt Allen Strickler
 Siaw Hui Tan
 Brenda C. Voshell
 John Michael Wallach
 Susan Marie Zelinski

Cum Laude with Distinction in English

Rosemary Virginia Hathaway

Summa Cum Laude

Thomas M. Anzalone
 Stu Brian Bechtler
 Jonathan Ames Bremer
 Tina Louise Buckmaster
 Connie Lee Cull
 Matthew John Englehart
 Stephen Thomas Falk
 Anne Burrough Hazelton
 Donald Edwin Longwell, Jr.
 Gail Richards Miller
 Cheryl Ann Myers
 Truong Xuan Nguyen
 Dallas Brian Noe
 Mary L. Renner
 Charles Edward Shriver
 Kenneth Alan Smith
 Pamela J. Swert
 Linda Lee Tudico
 Cynthia Susan Whitney

Summa Cum Laude with Honors in the Liberal Arts

Christina M. Antenucci
 Susan Michelle Betz
 Christopher P. Gilkerson

Summa Cum Laude with Honors in the Liberal Arts and with Distinction in English

Holly Ann Robinson

THE OHIO STATE UNIVERSITY
OFFICIAL PROCEEDINGS OF THE
ONE THOUSAND TWO HUNDRED AND THIRTY-SIXTH MEETING
OF THE BOARD OF TRUSTEES

Columbus, Ohio, December 3 and 4, 1987

The Board of Trustees met at its regular monthly meeting on Thursday, December 3, and Friday, December 4, 1987, at The Ohio State University Fawcett Center for Tomorrow, Columbus, Ohio, pursuant to adjournment.

* * *
Minutes of the last meeting were approved.
* * *

December 3 and 4, 1987 meeting, Board of Trustees

The Chairman, Mr. Redman, called the meeting of the Board of Trustees to order on December 3, 1987, at 6:30 p.m. He requested the Secretary to call the roll. The meeting recessed into Executive Session for the purpose of considering legal issues and personnel-related matters.

Present: Edmund C. Redman, Chairman, Leonard J. Immke, John W. Berry, Shirley D. Bowser, Hamilton J. Teaford, John J. Barone, and Milton A. Wolf.

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Mr. Redman reconvened the meeting on December 4, 1987, at 10:15 a.m.

Present: Edmund C. Redman, Chairman, Leonard J. Immke, John W. Berry, Shirley D. Bowser, Hamilton J. Teaford, John J. Barone, and Milton A. Wolf.

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Mr. Redman:

Let's proceed, then, to the Committee reports. Mr. Wolf, in Mr. Kessler's absence, would you give us some report on the Development Fund?

Mr. Wolf:

I don't have any information because Mr. Kessler was expected here and unfortunately no documents or information was passed on to me.

Mr. Redman:

Perhaps we could have the report at the next meeting.

Mr. Wolf:

Certainly.

Mr. Redman:

The Research Foundation Board of Directors --

Mr. Barone:

Mr. Chairman, on the Research Foundation I wish to report that for the month of October, as shown in the agenda book, there are ninety-four (94) awards listed that will provide a gross income of \$7.3 million.

For the first four months of the fiscal year (July 1 to October 31) we received 442 awards with a gross income of \$40.2 million. This can be compared to the first four months of the last fiscal year in which we had 373 awards with a gross income of \$29.4 million. This represents a 36.89% increase in funding for the four month period. As reported last month, much of the

December 3 and 4, 1987 meeting, Board of Trustees

Mr. Barone: (contd)

large increase we experienced in the first quarter of the fiscal year was due to the timing of several large awards and to the slowness in processing awards by several agencies during the past fiscal year. These factors are now beginning to "wash out" and some areas of solid growth may be seen including the Department of Health and Human Services, the State of Ohio, and the Industrial sector.

Some of the highlights of the awards for October are as follows:

- * a \$1.3 million award from the Department of Health and Human Services, National Institutes of Health, to Professor Robert J. Fass of the Department of Internal Medicine to support a clinical study group on the AIDS problem.
- * a \$639,000 award from the Department of Health and Human Services, National Institutes of Health, to Professor John H. Rinehart of the Department of Internal Medicine to conduct clinical trials in the area of immunotherapy.
- * a \$223,000 award from the Department of Education to Professor Joseph J. Quaranta of the Department of Educational Theory and Practice to conduct an inservice training program for elementary and secondary school/university staff aimed at developing programs for alcohol and drug free schools.

These, of course, are only a few of the awards received by University faculty. Anyone may consult the full listing provided in our agenda books or you may get one from Mr. Tom Sweeney.

That concludes my report, Mr. Chairman.

Mr. Redman:

Thank you, Mr. Barone. It is indeed impressive.

Mr. Barone:

I might add that the AIDS program has created a tremendous amount of publicity in the medical field. We feel that this award to Ohio State is most beneficial and has given us national attention. Under the guidance of our good friend, Dr. Tzagournis, these things, I know, will be very productive and are in able hands.

Mr. Redman:

Thank you, Mr. Barone. I would like to have a report now on the University Hospitals Board. Mr. Immke or Mrs. Bowser --

Mr. Immke:

I don't have any information to report to you at this time.

December 3 and 4, 1987 meeting, Board of Trustees

Mrs. Bowser:

No, there wasn't a meeting last month.

Mr. Redman:

Well, I would like to make a report, if I may -- one in which I take great interest and only because I have paid some personal attention to some particular problems. I did want to report to the Board that I met with the Committee on revising our billing procedure yesterday, with Dr. Senhauser, the members of his Committee, and Dr. Tzagournis. I think it was an excellent meeting in that the physicians seemed to accept the Board's approach that this was beneficial to all parties, including the physicians themselves. At the request of former Trustee, Mr. Jack Havens, we had a consultant from Cleveland report to the Committee and discuss in detail answers to questions which were of concern to the physicians. I was impressed with this gentleman and I think the Committee was impressed, as well.

One of the comments which he made was that if he was engaged to undertake this, which is a simplified billing procedure -- to take care of Mr. Teaford's requirements -- that it could be done and be implemented within 90 to 120 days. This would, indeed, be expeditious. He claims that he may be able to do this based upon the fact that they have sophisticated computer hardware in their office in Cleveland, on which they have already spent \$3 million and they intend to expand that. He is confident that what we have here is an accounting problem and that they have the solution. Presumably we will move forward and get that underway.

I don't know whether Mr. Covert is here or not -- is Mike Covert here?

Dr. Tzagournis:

I'm here, Mr. Chairman. If there is anything I can answer, I would be happy to.

Mr. Redman:

Well, I was impressed with Mr. Covert's statement on the helicopter. Would you want to address that?

Dr. Tzagournis:

The helicopter is quite busy. The last figure I heard was that in the first month of its operation it made 41 runs, more than one run a day. It has taken patients to Children's Hospital, Mt. Carmel, St. Anthony, and University Hospitals.

Mr. Redman:

So, we are off and running?

Dr. Tzagournis:

Yes.

December 3 and 4, 1987 meeting, Board of Trustees

Mr. Teaforde:

I think, too, as I understand it, that the vast majority of patients came to University Hospitals.

President Jennings:

I think the number was 26.

Mrs. Bowser:

Twenty-six out of 41 -- and they can fly in certain inclement weather. I live outside of Franklin County and that helicopter is important to those of us who live in surrounding areas. It is very important that you have a helicopter that can service those areas in bad weather conditions. I don't know much about airplanes, but as I understand it, helicopters are well equipped to do that.

Mr. Redman:

How many pilots, Dr. Tzagournis, do we have?

Dr. Tzagournis:

Two.

Mrs. Bowser:

Two. Two mechanics and a stand-by engine.

Mr. Redman:

That is about all I have to report on. Can we have a report on the University Foundation?

Mr. Teaforde:

Once again, Mr. Chairman, the Foundation meets only in September and April. I told you about September, and I will tell you about April.

Mr. Redman:

Thank you, Mr. Teaforde. That then completes the Committee reports.

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Mr. Redman:

I would like to call on Dr. Russell Spillman to introduce Patrick Haney, a senior in Political Science, and Parul Kapadia, a sophomore in Psychology/Pre-Medicine, to talk about the Honors Program.

Dr. Spillman:

Mr. Chairman, Members of the Board, and President Jennings, I am

December 3 and 4, 1987 meeting, Board of Trustees

Dr. Spillman: (contd)

very pleased to present these two members of our Honors Program, Parul Kapadia and Patrick Haney, who I think will have a fine presentation on our Honors Program.

Mr. Patrick Haney:

Dr. Jennings and Members of the Board, it is an honor to speak to you here this morning about the kinds of things that are going on in the Honors Program. I would like to take just a few minutes to share with you the kinds of opportunities that are available to students at The Ohio State University and Honors, from my own perspective as I look back on the last three and half years here at Ohio State.

The first thing that I would like to talk to you about is the Honors courses as an example of a way to shrink the University and promote both breadth and intensity. In my own experience I have taken Honors courses in my major field of study, political science, that have enabled me to work with just a few students and a faculty member intensely on an area of interest. I have also taken Honors courses in social sciences and the liberal arts that have enabled me to take classes in classics, comparative studies, English, and so forth with a small number of students and a faculty member. It also enables us to interact more -- students interact with faculty, and in my experience it has produced a quarter full of work that I am much more proud of and much more excited by than any other courses that I have taken at the University. Incidentally, just last night our English class met at my professor's house and had our last class and then watched movies of some of the books that we had been reading. We watched "The Picture of Dorian Gray" last night, which with the weather and everything made for quite a depressing evening.

Another opportunity in Honors is the Honors House. The old Presidents' house on Twelfth Avenue was recently renovated and is now the home of the University's Honors Center. The Honors House is an area for students to come and study, to lounge, and also an area for student organizations to have meetings. I know that a couple of you have been by the house -- Mr. Teaford, I enjoyed having lunch with you; and Mrs. Bowser, I understand that you've been there, and I would like to invite all of you to come by Honors House, as well.

Other opportunities for students in Honors, and also at the University at-large that I've experienced, has been a trip to West Point for a National Security Conference. The Student Council on U.S. Affairs is at West Point every November, and I had the opportunity to go to this Conference -- it was less than two weeks ago. I sat at the arms control round table. There were 165 students from 115 schools and about 50 cadets at West Point taking part in the Conference. Our round table focused on issues of arms control, especially as arms control now goes into

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Mr. Haney: (contd)

a new phase seeking reductions in both the strategic forces and theatre forces, and also the SDI debate.

I am also working on a senior honors thesis. The senior thesis, as I see it, will be a culmination of my work here at the University. My thesis deals with the farewell address of President Eisenhower. The address in which he warned the American people about the trends of the military industrial complex and the scientific technological elite. My focus and my thesis is on why did a General give such an address. In this way I hope to find out both the historical context and, more importantly, the physical writing of the address -- how it was drafted, what changes took place. In an effort to do this I will be traveling to the Eisenhower Library in Abilene, Kansas, the second weekend in January to do research on the President's papers and on other peoples' papers. I've been in contact with the speech writer's family and I will be working with his papers at the University of Minnesota. I will also be going to Johns Hopkins where there are some other papers that the President wrote, as well. My hope at the end of this project is to put together a piece of archival primary research on why this address was given. I hope it will illuminate the question of the types of forces that take place in a political economy. And for us to look at -- perhaps the President wanted to look at politics in a new way, a way that enlarged a pluralistic vision of our society, to say that there are more forces at hand here than simple democratic forces or simple elitist forces.

In and out of the classroom my experience in Honors has been one that has helped me strive towards a high level of achievement. As I enter the crunch of finals week, I now start to get my application materials together for graduate school. It is both a hectic time and one that I wish would be over, but one that I think once I am in graduate school, I will look back on fondly and remember the times at this University and the opportunities that I have had: I had lunch with Mr. Teaford, and spoke with the President and the Provost earlier in the week, and to be with you today. These times have helped me to grow and will enable me to represent the University and myself with a very high standard in graduate school and in my profession. Thank you.

Mr. Redman:

Thank you, Mr. Haney. And now, Parul Kapadia.

Ms. Parul Kapadia:

Mr. President, Dr. Jennings, and Members of the Board, I will be providing a slightly different perspective on Honors, maybe a younger perspective, focusing more on the first year and beginning in the Honors Program.

When I think about a word that I could use to characterize my experience in the Honors Program thus far, the word opportunity

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Ms. Kapadia: (contd)

is the one that comes to mind. When I first came to Ohio State, many people warned me or cautioned me about how I would feel like just a drop in the bucket, I'd feel like just one of a crowd and be kind of lost. I am happy to say that I can't think of one time since I've been here that I've ever had that feeling of being lost or just being known by my social security number (which took me a while to memorize). But I think one of the reasons I've never felt this way is because of the Honors Program at Ohio State. My first quarter here I was enrolled in the Honors calculus series. I had an excellent professor, who will probably turn out to be one of the best that I will have at Ohio State. It was a small class, and he created an atmosphere in the class that made us very comfortable. We felt free to ask questions, to question him, to suggest different approaches, and also to just raise our hands and say, "Wait, we are completely lost, can you back up?" I think that is something that is very important in a class and it was very similar to a high school class in that way. Also, because it was a small class, the students really got to know each other. And I think we almost created a support system amongst ourselves, as it was our first quarter at Ohio State. I made a lot of friends in that class, many of whom are good friends of mine now.

Something else that has helped me was living in the Honors dorm, Taylor Tower. While -- this eludes to the opportunity I spoke of earlier -- the academics and the Honors courses provided a challenge academically, Taylor Tower gave me the opportunity to become involved in different activities in student life, in terms of Honors. When I first came to Taylor Tower, I went through orientation and I got involved and signed up for an organization called the Honors Community Association, of which Pat is President this year. This year I am heading up a program which I am very excited about. It is a pilot program this year, but I feel that if we can make it big, it can eventually become somewhat of a recruitment tool for the Ohio State Honors Program. It involves pairing incoming freshman Honors students with upper classman. It is a big brother/big sister type of support program which might give students advice on their major, help them with scheduling, and all sorts of little things that are new to them when they first come to college.

I am very excited about this program. It provided me with yet another opportunity this past October when I had a chance to travel to Dallas for the National Collegiate Honors Council Annual Convention. We went there to present this particular program as a beginning program at Ohio State and also to present the Honors Community Association. We gave that presentation and it went very well. I feel that I got a lot of ideas back from that Conference on how I can expand the program next year, how we can work to make it bigger and better, and I think we were also able to give some ideas to other schools. The Conference was a unique experience for me because I was exposed to Honors students from all over the country -- that was very fascinating. I also had never been to Dallas, so that was a nice trip.

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Ms. Kapadia: (contd)

My academic course work has also led to other opportunities. It allowed me to be eligible for the Alpha Lambda Delta and Phi Eta Sigma Honorary Societies, the two organizations of which I am President this year. When I look in terms of future opportunities, I am a pre-med student thinking of majoring in psychology, and the vast resources of Ohio State's health sciences -- the medical school, the optometry school, all of the various health sciences schools, I am hoping I can take advantage of those opportunities and the benefits of having such vast resources right here at Ohio State. I'm hoping to become involved in some research over the summer, or possibly next year, in some of the laboratories, or possibly the neurology laboratory. I hope to get some lab experience and make sure that medicine is the field that I want to go into.

That pretty much summarizes how Honors has gone for me so far, I just hope everything continues to go as well as it did this past year.

Mr. Haney:

I think that if anyone of you had any questions about the Honors Program or about the Honors Societies, Parul mentioned that she is President of the Alpha Lambda Delta and Phi Eta Sigma, and I'm President of Mortar Board -- Dr. Jennings is an honorary member of Mortar Board, the National Seniority Society. Mrs. Bowser, are you a member of Mortar Board?

Mrs. Bowser:

Yes, and Alpha Lambda Delta.

Mr. Haney:

So if you have any questions about the Honors Program or about what is going on in the Societies, we would be happy to respond to those.

Mr. Berry:

May I ask a question? How many students are involved in the Honors Program?

Mr. Haney:

Currently the people designated as Honors Students at the University is somewhere between 2,000-3,000 students. A new University Honors Society was started last year. The Society began with this incoming freshman class, so now there will be an even more structured recognition and program for new Honor students. Right now it is between 2,000 and 3,000 students designated as Honors Students.

Mr. Teaford:

Mr. Chairman, as you know, it was at my suggestion that we have these representatives of the Honors Program here as a result of

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Mr. Teaforde: (contd)

having met with some of them. I find it a particularly good occasion for them to be here and I wish all those cameras were aimed there, because what we are hearing here is what Ohio State is about and what this administration is doing to make it the great university it is. It is not the reason why the members of the press came, but I hope that the Ladies and Gentlemen of the press will include a report on this when they report about the doings at Ohio State University.

Mrs. Bowser:

I would like to concur with this and I'm not sure whether it's the old President's house, or the President's old house, but it's certainly a tribute to the administration and to this University -- the renewal of belief in the really scholastically prepared students. That is a remarkable facility that Dr. Al Kuhn heads up. I urge all of you Board Members to just take some time and go over there, because it just sort of renews your whole faith in what we are doing here. It is a marvelous tribute.

Mr. Redman:

Thank you, Mrs. Bowser.

Mr. Scott:

I would like to make a comment about Pat Haney. I have followed his career for a long time. He is a St. Charles graduate. Pat was a truly outstanding student at St. Charles and I think that most observers would have predicted, at that time, that he was a youngster that we should watch. I know a little bit more about Pat than most of you, because my son, David, was a classmate of Pat's. I had anticipated and hoped that David would have had the wisdom to attend Ohio State, we didn't get David, but, Pat, we are very glad that we got you.

Mr. Haney:

Thank you, Mr. Scott. We did try our best to get David, as well.

Mr. Redman:

Is there any other comment? If not, thank you folks.

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NAMING OF BUILDING

Resolution No. 88-61

Synopsis: A name is proposed for the building on the Columbus campus at 2490 Fyffe Road, now described as the Multi-Sport Indoor Practice and Training Center.

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NAMING OF BUILDING (contd)

WHEREAS this Board has authority in naming of all buildings and structures at The Ohio State University, as set forth in paragraph (G) of rule 3335-1-08 of the Administrative Code; and

WHEREAS the building on the Columbus campus at 2490 Fyffe Road is currently described as the Multi-Sport Indoor Practice and Training Center; and

WHEREAS the multi-sport training facility symbolizes the University's continuing commitment to excellence; and

WHEREAS Wayne W. "Woody" Hayes was a part of Ohio State's tradition of academic and athletic greatness since 1951; and

WHEREAS his dedication to a broad and continuing education was an inspiration to students, faculty, staff, and the community; and

WHEREAS Woody Hayes's accomplishments as a teacher, an educator, and a great humanitarian were well known; and

WHEREAS the President recommended, with the concurrence of the President's staff, that the aforementioned building at 2490 Fyffe Road be named in honor of Woody Hayes:

NOW THEREFORE

BE IT RESOLVED, That hereafter the building at 2490 Fyffe Road shall bear the name "The Woody Hayes Athletic Center."

Upon motion of Mr. Berry, seconded by Mr. Teaford, the Board of Trustees adopted the foregoing resolution by unanimous voice vote.

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PERSONNEL ACTIONS

Resolution No. 88-62

RESOLVED, That the personnel actions as recorded in the Personnel Budget Records of the University since the November 6, 1987 meeting of the Board, including the following Promotion, Relief from Assignment, Professional Improvement Leave, Professional Improvement Leave--Change of Dates as detailed in the University Budget be approved, and the Medical Staff Appointments/Reappointments approved October 29, 1987, by the Hospitals Board be ratified

Promotion

Name:	JAMES L. JONES
Title:	Athletic Director
Department:	Athletics
Effective:	November 16, 1987
Salary:	\$85,080.00
Present Position:	Senior Associate Director, Department of Athletics

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PERSONNEL ACTIONS (contd)

Relief from Assignment

EARLE D. BRUCE relieved as Head Football Coach in accordance with paragraph (5) of the agreement between The Ohio State University and Earle D. Bruce signed June 5, 1986.

Professional Improvement Leave

STEPHEN S. PINSKY, Professor, Department of Physics, effective Winter Quarter and Spring Quarter 1988.

Professional Improvement Leave--Change of Dates

JAMES E. HARF, Professor, Department of Political Science, change leave from Winter Quarter, Spring Quarter and Autumn Quarter 1988, to Spring Quarter, Autumn Quarter 1988 and Winter Quarter 1989.

Mr. Redman made the following statement:

Before I ask for a vote on the President's recommendation, I would like to read the following statement.

I think it is important for everyone to put the events of the past several weeks into their proper perspective. First and foremost is the recognition of the University's commitment to excellence in pursuing its mission of teaching, research and service. This is an educational enterprise dedicated to the common good. Institutional decisions are reached by critical evaluation over time with special attention being given to a multitude of possible concerns. Such was indeed the case recently with respect to the University's Men's Varsity Football Program.

The Board appreciates President Jennings's leadership in dealing with these matters and with the opinions expressed in reaction thereto. It is indeed difficult for many to have an institutional perspective regarding recent events. But it is the institutional perspective that must prevail -- the University's overall mission. Individuals must have a high regard for the institutional process at work. Indeed this vibrant educational institution is bursting with meritorious activities that are newsworthy and that far surpass any individual personnel changes. Much activity is occurring around us that benefits staff, the State and society in general. One need not look far across our topography to see building activity -- the new Cancer Research Institute, our new Supercomputer, the Wexner Center for Visual Arts, our state-of-the-art Chemistry Building, and many other renovations which support our mission. One could also see building, learning and shaping of minds going on all about us. Academic excellence in our graduate and undergraduate programs is what attracts young talented minds to study at this great university.

As our reach expands and our academic achievement multiplies, it is hoped that the media will continue to demonstrate the same

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PERSONNEL ACTIONS (contd)

Mr. Redman: (contd)

quest for enlightenment that it has provided in covering the events of the past several days.

In any event, the institution moves forward, daily business is conducted and students continue to seek knowledge. Our University sustains its ongoing focus on excellence, maintains and supports its diversity and stands ready to meet the challenge and commitments inherent within our major research institution. These organizational values and traditions take precedence over the actions of individuals.

We cannot forget our fundamental mission which is to provide our students with the basic skills and competencies which they need to have in order to be productive members of society. That must be accomplished while also enhancing our research possibilities and our service mission. Accomplishing these goals and ambitions requires a shared sense of purpose and loyalty to the ideals which make The Ohio State University one of the great public universities in this nation.

Finally, we are very pleased today to confirm the selection of Jim Jones as the University's new Athletic Director. We are pleased to do this, in part, because of Mr. Jones's longstanding commitment to and understanding of The Ohio State University. He has earned the trust of his co-workers, the students, the administration and the community. It is hoped that with his leadership we can continue the traditions that have made the University great -- excellence in teaching, research and service.

Upon motion of Mr. Teaford, seconded by Mr. Wolf, the Board of Trustees adopted the foregoing resolution by unanimous roll call vote.

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RESOLUTIONS IN MEMORIAM

Resolution No. 88-63

Synopsis: Resolutions honoring the service of four of the University's faculty members who have recently died are being proposed.

RESOLVED, That the Board adopt the following Resolutions in Memoriam and that the President be requested to convey a copy to the families of the deceased.

N. Paul Hudson

The Board of Trustees of The Ohio State University expresses its sorrow upon the death on April 13, 1987, of Dr. N. Paul Hudson, Professor Emeritus in the Department of Microbiology.

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RESOLUTIONS IN MEMORIAM (contd)

N. Paul Hudson (contd)

N. Paul Hudson was born in Lincoln, Illinois, on January 9, 1895. He held the degrees A.B., James Millikan University, 1917; Ph.D., University of Chicago, 1923; and M.D., Harvard Medical School, 1925. He also held the honorary degree Sc.D., James Millikan University, 1951. Dr. Hudson's distinguished university career included service as an Instructor and later Professor of Bacteriology at the University of Chicago; and as Professor and Chairman of Bacteriology, Dean of the Graduate School, Research Professor of Bacteriology and Assistant Dean of the College of Medicine at The Ohio State University.

Dr. Hudson served from 1927 to 1929 as one of the leaders of the West African Yellow Fever Commission of the Rockefeller Foundation, leading to effective control of this disease. From 1940 to 1941, he was Rockefeller Foundation representative in London for the War Health Program, and from 1943 to 1945, he was on leave to serve as a consultant to the War Department. For his distinguished service as a research scientist, teacher, academic administrator and public servant, Dr. Hudson was recommended for the honorary degree Doctor of Science. Upon his retirement in 1961, he was named Professor Emeritus.

On behalf of the University community, the Board of Trustees expresses to the family its deepest sympathy. It was directed that this resolution be inscribed in the minutes of the Board of Trustees and that a copy be tendered to the family as an expression of the Board's heartfelt sympathy.

Jack L. Landes

The Board of Trustees of The Ohio State University expresses its sorrow upon the death on November 4, 1987, of Jack L. Landes, Assistant Director Emeritus in the Office of Campus Planning and Space Utilization.

Dr. Landes was born January 28, 1914, in Oak Grove, Missouri. He entered Central Missouri State College in 1929, and in 1933 and 1934 received three baccalaureate degrees, in education, music and physics. During the ensuing 15 years, he served in public schools as a teacher and administrator, and completed requirements for and was awarded masters degrees by the University of Missouri and the University of Illinois, in 1943 and 1950, respectively.

Dr. Landes joined the Office of Field Services at the University of Illinois in 1949 and, while serving in an administrative capacity there for seven years, received the EdD in 1953, his 6th degree in higher education.

Dr. Landes came to The Ohio State University in 1957, after experience with the Cincinnati public school system helping to plan facilities to meet burgeoning school populations there. He became the Assistant Director of the Office of University Plant Studies -- later renamed the Office of Campus Planning and Space Utilization -- and had a major role in providing for increasing space needs during a period of substantial University growth. During his 22-year tenure, he was directly responsible for project planning for nearly 150 construction projects on the several campuses of The Ohio State University, representing almost

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RESOLUTIONS IN MEMORIAM (contd)

Jack L. Landes (contd)

half of the 11 million gross square feet of space added to the campus during that time.

Dr. Landes was a member of a number of professional societies and held a faculty appointment in the College of Education with the rank of Associate Professor of Educational Administration. He retired and was named Assistant Director Emeritus.

In addition to his lifelong interests in education, music and planning, Dr. Landes was an avid and respected gardener who received much acclaim for the development of the property at his Columbus home. He was an enthusiastic participant in musical programs in his church as a tenor in the church choir, and was responsible for organizing the chorus at the Barber Roselea Senior Citizens Center in Columbus.

On behalf of the University, the Board of Trustees expresses to the family its deep sympathy and sense of understanding in their loss. It was directed that this resolution be inscribed upon the minutes of the Board of Trustees and that a copy be tendered to the family as an expression of the Board's heartfelt sympathy.

Francis Willard McCoy

The Board of Trustees of The Ohio State University expresses its sorrow upon the death on October 15, 1987, of Francis Willard McCoy, Professor Emeritus in the Department of Internal Medicine and former Director of the Division of Rheumatology.

Dr. McCoy was born on January 24, 1914, in Barberton, Ohio, where he spent the early years of his life. He attended The Ohio State University and was awarded a premedical Bachelor of Arts degree in 1936 and a Master of Science degree in 1938. Dr. McCoy attended medical school at The Ohio State University and was awarded the Doctor of Medicine in 1942.

Following medical school, Dr. McCoy completed internship and residency training at The Ohio State University, and received subspecialty training at Watkins Memorial Hospital in Kansas, as well as the Hospital for Special Surgery in New York City. He completed a research fellowship at the latter institution in 1955.

Dr. McCoy served in the U. S. Air Corps from 1943 until 1946.

Dr. McCoy began teaching in 1937 in the Department of Anatomy at The Ohio State University and later held a faculty appointment in the Department of Medicine. In 1970, he was appointed Director of the Division of Rheumatology, and he served in this capacity until 1978. In the early 1970's, Dr. McCoy was promoted to full professor. In 1981, after an illustrious career as Director of Rheumatology, Dr. McCoy retired from the faculty and was awarded the title Professor Emeritus.

Dr. McCoy was active in many local and state institutions and participated in a number of national organizations. He served as consultant to the Veterans Administration, as well as the U. S. Air

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RESOLUTIONS IN MEMORIAM (contd)

Francis Willard McCoy (contd)

Force. Later in his career, he served as Acting Chief of Medicine at the Veterans Administration Clinic in Columbus, Ohio.

Throughout his life, Dr. McCoy maintained an active role in teaching medical students and other trainees. He is remembered for his constant readiness to help with clinical problems and to be of service to his colleagues at the University. He will be remembered for his gentle manner in dealing with patients and staff alike.

On behalf of the University, the Board of Trustees expresses to the family its deep sympathy and sense of understanding in their loss. It was directed that this resolution be inscribed upon the minutes of the Board of Trustees and that a copy be tendered to the family as an expression of the Board's heartfelt sympathy.

Waldron Devol Sheets

The Board of Trustees of The Ohio State University expresses its sorrow upon the death on October 31, 1987, of Waldron D. "Deve" Sheets, Professor Emeritus in the Department of Chemical Engineering.

Professor Sheets was born September 9, 1903, in Willow, West Virginia. He was a graduate of the Department of Chemical Engineering at The Ohio State University where he earned the professional degree of Chemical Engineer in 1940. He was a Major in the U.S. Army Sanitation Corps during World War II and retired from military service in 1946.

Professor Sheets was appointed as a Research Engineer in the Engineering Experiment Station in 1947, and as an Assistant Professor of Chemical Engineering in 1950. Upon his retirement in 1971, he was named Professor Emeritus.

Professor Sheets worked in the Water Resources Center Building in the 1930's, while a student, and continued there as Research Engineer during most of his career at Ohio State. He was instrumental in establishing the Water Resources Center in 1964, and the W. D. Sheets Sanitary Engineering Laboratory in the Center was dedicated in his honor at his retirement. His research was in the treatment of municipal and industrial wastewaters.

In 1948, he began a program of short courses at the University to train operators of water and wastewater treatment plants. By 1964, the demand for this training was so great that the Operator Training Committee of Ohio, Inc., was established off campus under his leadership. Last year over 2,000 operators throughout Ohio took these training courses. Professor Sheets received the Wendell La Due Citation from the Ohio Section of the American Water Works Association in October 1968, for his role in developing the "Manual for Water and Waste Water Plant Operators," a publication which became a model for the nation.

Just prior to his death he was elected to the Water Management Association of Ohio Hall of Fame, honoring those who have "given years of distinguished service in behalf of bettering water management in the

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RESOLUTIONS IN MEMORIAM (contd)

Waldron Devol Sheets (contd)

State of Ohio." Professor Sheets's first graduate student presented this award.

On behalf of the University, the Board of Trustees expresses to the family its deep sympathy. It was directed that this resolution be inscribed upon the minutes of the Board of Trustees and that a copy be tendered to the family as an expression of the Board's heartfelt sympathy.

Upon motion of Mr. Wolf, seconded by Mr. Barone, the Board of Trustees adopted the foregoing resolution by unanimous voice vote.

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REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS

Resolution No. 88-64

Synopsis: The reports on contracts, grants, and gifts and the summary for October 1987 are presented for Board acceptance.

WHEREAS monies are solicited and received on behalf of the University from governmental, industrial, other agencies, alumni, and various individuals in support of research, instructional activities, and service; and

WHEREAS such gifts and grants are received through The Ohio State University Research Foundation, the Engineering Experiment Station of The Ohio State University, and The Ohio State University Development Fund:

NOW THEREFORE

BE IT RESOLVED, That the research agreement between The Ohio State University and The Ohio State University Research Foundation for the contracts and grants reported herein, and the acceptance of the reports from the Engineering Experiment Station and The Ohio State University Development Fund during the month of October 1987 be approved.

Upon motion of Mr. Berry, seconded by Mr. Immke, the Board of Trustees adopted the foregoing resolution by unanimous voice vote.

SUMMARY FOR OCTOBER 1987

Source	No. of Projects	Support Level
The Ohio State University Research Foundation	94	\$7,326,251.85
Engineering Experiment Station	33	596,375.00
Total	127	\$7,922,626.85

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REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)

SUMMARY FOR OCTOBER 1987 (contd)

The Ohio State University Development Fund

Establishment of Named Funds

The A. Sophie Rogers Memorial Fund (To provide continuing support for The A. Sophie Rogers Laboratory for Child and Family Studies)	\$ 300,000.00
Mark L. Morris Veterinary Clinical Nutrition Research and Education Fund (To provide resources for clinical research and education in nutritional diseases of domestic animals)	\$ 250,000.00
The Flo C. and Merrill H. Amos Cooperative Extension Innovation Fund (To fund Innovative Cooperative Extension Service Programs at the county and state levels)	\$ 228,000.00
William S. and Marguerite C. Price Scholarship Award (To provide scholarship assistance for students majoring in French language and/or culture)	\$ 67,000.00
The Deloitte Haskins & Sells Accounting Professorship Fund (To provide a professorship in accounting in the College of Business)	\$ 60,000.00
The Clabaugh Glaucoma Research Fund (To support research with respect to the cure and treatment of glaucoma)	\$ 35,500.00
Crane Fund for Hispanic Studies (To support the instruction and research missions in the area of Hispanic studies)	\$ 25,000.00
The Gerry D. Guthrie Scholarship Award (Scholarship to the undergraduate or graduate student majoring in United States history who writes the best paper on the Civil War)	\$ 15,000.00
The Historic Costume and Textiles Collection Fund (To provide continuing support to the Historic Costume and Textiles Collection)	\$ 15,000.00

Change in Description of Named Fund

Alumni Scholarship Fund - The College of Social Work

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REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)

THE OHIO STATE UNIVERSITY RESEARCH FOUNDATION

Report - October 1987

Federal Research Contracts/Grants

\$1,378,267.00 - Department of Health and Human Services, Public Health Service, National Institutes of Health, Bethesda, Maryland, Acquired Immunodeficiency Syndrome Clinical Study Group, Department of Internal Medicine (R. J. Fass), 30 September 1987 through 31 August 1988. (Project 766341 - New)

\$639,949.00 - Department of Health and Human Services, Public Health Service, National Institutes of Health, Bethesda, Maryland, Phase Ib Clinical Trial of Immunotherapy with Interleukin-2 Alone or in Combination with Adoptive Transfer of Cytotoxic Cells, Department of Internal Medicine (J. J. Rinehart), 30 September 1987 through 31 January 1989. (Project 766420 - New)

\$223,594.00 - Department of Education, Washington, D.C., Inservice Training Project for K-12 Comprehensive Drug and Alcohol Education-Prevention Programs, Department of Educational Theory and Practice (J. J. Quaranta), 1 October 1987 through 30 September 1989. (Project 766413 - New)

\$158,677.00 - Department of Education, Office of Special Education and Rehabilitation Services, Washington, D.C., A Prototype Robotic Arm for Use by Severely Orthopedically Handicapped Students, Department of Educational Theory and Practice (R. D. Howell), 1 October 1987 through 30 March 1989. (Project 766392 - New)

\$138,223.00 - Department of Agriculture, Science and Education, Washington, D.C., AFBC - EC Engine System for Biomass Power, Department of Agricultural Engineering - OARDC (H. M. Keener, J. E. Henry and W. L. Roller), 15 September 1987 through 30 September 1989. (Project 766398 - New)

\$137,306.00 - Maryland Procurement Office, Fort George G. Meade, Maryland, Microwave Antenna Technology, Department of Electrical Engineering, ElectroScience Laboratory (R. C. Rudduck), 1 October 1987 through 1 March 1988. (Project 765096 - Continuation)

\$136,521.00 - Department of Health and Human Services, Public Health Service, Health Resources and Services Administration, Rockville, Maryland, Breastfeeding Promotion in a Low Income Urban Population, Department of Pediatrics (L. K. Grossman), 1 October 1987 through 30 September 1988. (Project 765035 - Continuation)

\$128,348.00 - Department of Health and Human Services, Public Health Service, National Institutes of Health, Bethesda, Maryland, DNA Damage in Oncogene Activation, Department of Radiology (A. A. Wani, S. M. D'Ambrosio and R. M. Snapka), 30 September 1987 through 31 August 1988. (Project 766418 - New)

\$110,250.00 - Department of Health and Human Services, Public Health Service, National Institutes of Health, Bethesda, Maryland, Exercise,

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REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)

THE OHIO STATE UNIVERSITY RESEARCH FOUNDATION (contd)

Federal Research Contracts/Grants (contd)

Oxidant Stress, Antistressors and Atheroma, Department of Physiological Chemistry (A. J. Merola), 30 September 1987 through 29 September 1988. (Project 765064 - Continuation)

\$100,000.00 - Department of the Interior, Geological Survey, Reston, Virginia, Terrain Modeling and Contouring Software Development, Center for Mapping (J. D. Bossler), 30 September 1987 through 30 September 1988. (Project 766395 - New)

\$100,000.00 - Department of the Navy, Office of Naval Research, Arlington, Virginia, Exploratory Research on the Protection of Carbon-Carbon Composites Against Oxidation at Very High Temperatures (>3000°F) with Engel-Brewer and Other Intermetallic Compounds, Department of Metallurgical Engineering (G. R. St. Pierre, J. P. Hirth and R. A. Rapp), 1 November 1987 through 31 October 1988. (Project 765280 - Continuation)

\$99,993.00 - Department of the Navy, Navy Material Command, China Lake, California, Compact Range Application Research, Department of Electrical Engineering, ElectroScience Laboratory (W. D. Burnside), 14 September 1987 through 13 September 1988. (Project 766386 - Continuation)

\$99,667.00 - Department of the Air Force, Air Force Systems Command, Bolling Air Force Base, D.C., Distributed Knowledge Base Systems for Diagnosis and Information Retrieval, Department of Computer and Information Science (B. Chandrasekaran), 1 November 1987 through 31 October 1988. (Project 765799 - Continuation)

\$96,361.00 - Department of the Navy, Office of Naval Research, Arlington, Virginia, Pack Cementation Coating of Ni-Base and Co-Base Alloys to Combat Low Temperature Hot Corrosion, Department of Metallurgical Engineering (R. A. Rapp), 1 November 1987 through 31 October 1988. (Project 765839 - Continuation)

\$87,159.00 - Department of the Army, Army Materiel Command, Redstone Arsenal, Alabama, Radar Cross Section Prediction Code Development, Department of Electrical Engineering, ElectroScience Laboratory (R. J. Marhefka), 30 September 1987 through 29 September 1988. (Project 765718 - Continuation)

\$86,774.00 - Department of Health and Human Services, Public Health Service, Center for Disease Control, Atlanta, Georgia, Development of Appropriate Measures to Determine the Impact of Efforts to Decrease Smokeless Tobacco Use, School of Health, Physical Education and Recreation (M. S. C. Chen) and Oral Biology (K. Schroeder), 28 September 1987 through 27 September 1988. (Project 766408 - New)

\$85,897.00 - Department of Health and Human Services, Public Health Service, National Institutes of Health, Bethesda, Maryland, The Optimal Corneal Shape, College of Optometry (L. G. Carney), 30 September 1987 through 29 September 1988. (Project 766416 - New)

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REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)

THE OHIO STATE UNIVERSITY RESEARCH FOUNDATION (contd)

Federal Research Contracts/Grants (contd)

\$85,700.00 - Department of Commerce, Economic Development Administration, Washington, D.C., Implementing Rural Assistance Center Programs for Farm Families, The National Center for Research in Vocational Education (R. D. Ryan), 1 September 1987 through 30 September 1988. (Project 766411 - New)

\$82,990.00 - National Science Foundation, Washington, D.C., Manipulation of Objects by Means of Phased Movements of Multiple Fingers, Department of Mechanical Engineering (K. J. Waldron), 15 October 1987 through 31 March 1989. (Project 766443 - New)

\$82,933.00 - National Aeronautics and Space Administration, Lewis Research Center, Cleveland, Ohio, Interaction Between Tollmien-Schlichting Waves and Free Stream Disturbances in Boundary-Layer Flows, Department of Aeronautical and Astronautical Engineering (R. J. Bodonyi), 1 December 1987 through 30 November 1988. (Project 765803 - Continuation)

\$74,117.00 - Department of Health and Human Services, Social Security Administration, Baltimore, Maryland, Functional Capacities of Older Men for Extended Work Lives, Department of Preventive Medicine (G. Nestel), 1 October 1987 through 30 September 1988. (Project 766410 - New)

\$70,994.00 - Department of Education, Office of Vocational and Adult Education, Washington, D.C., Bilingual Vocational Instructor Training, Graduate School Administration (D. A. Adams) and The National Center for Research in Vocational Education (R. D. Ryan), 1 September 1987 through 28 February 1989. (Project 766425 - New)

\$67,908.00 - National Science Foundation, Washington, D.C., A Study of the Windfield Near Terra Nova Bay, Byrd Polar Research Center (D. H. Bromwich), 1 June 1987 through 31 May 1988. (Project 765479 - Continuation)

\$63,715.00 - Department of Education, Office of Educational Research and Improvements, Washington, D.C., Integrating an Organized Approach to Funding Information with an Online Library Catalog and Remotely-Searchable Bibliographic Databases, University Libraries (V. M. Tiefel), 1 October 1987 through 30 September 1988. (Project 766415 - New)

\$62,597.00 - National Aeronautics and Space Administration, Lewis Research Center, Cleveland, Ohio, Proposal to Study Crystallization of the Glassy Grain Boundary Phase in Silicon Nitride Ceramics, Department of Ceramic Engineering (C. H. Drummond and W. E. Lee), 15 October 1987 through 14 October 1988. (Project 766445 - New)

\$62,583.00 - Department of Health and Human Services, Public Health Service, National Institutes of Health, Bethesda, Maryland, Human Erythroid-Potentiating Activity, Department of Internal Medicine (B. A. Avalos), 1 August 1987 through 31 July 1988. (Project 766427 - New)

\$58,628.00 - Department of Education, Office of Postsecondary Education, Washington, D.C., Cooperative Education Grant for the Professional

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REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)

THE OHIO STATE UNIVERSITY RESEARCH FOUNDATION (contd)

Federal Research Contracts/Grants (contd)

Practice Program, College of Business - Administration (R. L. Racster), 1 October 1987 through 30 September 1988. (Project 766409 - Continuation)

\$54,591.00 - Department of the Navy, Office of Naval Research, Arlington, Virginia, Resonant Region NCTR Research, Department of Electrical Engineering, ElectroScience Laboratory (E. K. Walton), 15 July 1987 through 1 February 1988. (Project 765216 - Continuation)

\$51,000.00 - Department of Education, Office of Educational Research and Improvements, Washington, D.C., Reading Recovery Project 1987-1991, Department of Educational Theory and Practice (G. S. Pinnell), 1 October 1987 through 30 September 1988. (Project 766402 - New)

\$48,481.00 - Department of Health and Human Services, Public Health Service, National Institutes of Health, Bethesda, Maryland, Human Thrombin: Binding and Recognition Sites, Department of Chemistry (L. J. Berliner), 1 September 1987 through 31 January 1988. (Project 761742 - Continuation)

\$43,432.00 - Department of Health and Human Services, Public Health Service, National Institutes of Health, Bethesda, Maryland, The Ohio State University Advanced Glaucoma Intervention Study, Department of Ophthalmology (P. A. Weber), 1 September 1987 through 31 August 1988. (Project 766355 - Continuation)

\$37,706.00 - Department of the Army, Army Corps of Engineers, Fort Belvoir, Virginia, Develop Software to Utilize Data from the NAVSTAR Global Positioning System to Model the Geoid, Department of Geodetic Science and Surveying (C. C. Goad), 1 October 1987 through 31 October 1988. (Project 766396 - New)

\$36,800.00 - Environmental Protection Agency, Chicago, Illinois, Exposure Probabilities for Resuspended and Advected Sediment in the Upper Connecting Channels, Department of Civil Engineering (K. W. Bedford), 1 July 1987 through 30 June 1988. (Project 764858 - Continuation)

\$35,000.00 - National Science Foundation, Washington, D.C., Physical Studies of Milk Xanthine Oxidase, Department of Physiological Chemistry (C. R. Hille), 1 May 1988 through 30 April 1989. (Project 765099 - Continuation)

\$34,693.00 - Environmental Protection Agency, Chicago, Illinois, Effect of No-Till and Fall Plowing on Pesticide Movement in Runoff and Till Drainage, Department of Agronomy - OARDC and Department of Agronomy (T. J. Logan) and Cooperative Extension State Operations and Department of Agronomy - OARDC (D. J. Eckert), 1 May 1987 through 30 April 1989. (Project 766424 - New)

\$33,000.00 - Department of the Navy, Navy Material Command, China Lake, California, Ram and Inlet Modeling: Compact Range Scattering, Department of Electrical Engineering, ElectroScience Laboratory (P. Pathak), 1 July 1987 through 30 June 1988. (Project 764991 - Continuation)

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REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)

THE OHIO STATE UNIVERSITY RESEARCH FOUNDATION (contd)

Federal Research Contracts/Grants (contd)

\$32,000.00 - Department of Agriculture, Animal and Plant Health Inspection Service, Moorestown, New Jersey, Cooperative National Plant Pest Survey and Detection Program (Ohio Plant Pest Survey), Cooperative Extension State Operations (H. R. Willson), 1 October 1987 through 30 September 1988. (Project 763261 - Continuation)

\$30,000.00 - Department of the Air Force, Air Force Systems Command, Wright-Patterson Air Force Base, Ohio, Thermodynamic and Diffusivity Measurements in Potential Ultra-High Temperature Composite Materials, Department of Ceramic Engineering (J. D. Cawley) and Department of Metallurgical Engineering (W. B. Johnson), 1 October 1987 through 31 December 1987. (Project 766346 - New)

\$29,860.00 - National Science Foundation, Washington, D.C., Super-Realtime Dynamic Simulation of Multiple-Chain Robotic Systems, Department of Electrical Engineering (D. E. Orin), 15 September 1987 through 28 February 1989. (Project 766433 - New)

\$28,387.00 - Department of the Navy, Office of Naval Research, Arlington, Virginia, Molecular Biology of the Extremely Thermophilic Archaeobacterium, Methanothermus fervidus, Department of Microbiology (J. N. Reeve), 1 October 1987 through 31 March 1988. (Project 765291 - Continuation)

\$26,100.00 - Department of Education, Office of Educational Research and Improvements, Washington, D.C., The Acquisition of Art Knowledge: A Theoretical Framework for Curriculum Development in Art Education, Department of Art Education (J. L. Koroscik), 1 January 1988 through 31 August 1988. (Project 766417 - New)

\$21,521.00 - National Science Foundation, Washington, D.C., Chloroplast Transport: Characterization of the C4-Phosphoenolpyruvate Translocator, Department of Horticulture - OARDC and Department of Horticulture (M. E. Rumpho-Kennedy), 1 September 1986 through 28 February 1989. (Project 765690 - Continuation)

\$18,368.00 - Department of Education, Office of Educational Research and Improvements, Washington, D.C., A Multifaceted Mentoring Program for Minority Students on a Regional Campus, Mansfield Campus (J. O. Riedl), 1 September 1987 through 31 August 1988. (Project 766434 - New)

\$18,000.00 - National Aeronautics and Space Administration, Washington, D.C., Rapid Prototyping with Centaurs, Department of Industrial and Systems Engineering (P. J. Smith), 1 October 1987 through 30 September 1988. (Project 765706 - Continuation)

\$16,000.00 - Environmental Protection Agency, Washington, D.C., Effects of Climatic Change on Plant-Pest Interactions, Department of Entomology - OARDC (B. R. Stinner, R. A. J. Taylor and R. B. Hammond) and Department of Plant Pathology - OARDC (L. V. Madden), 30 September 1987 through 30 September 1988. (Project 766422 - New)

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REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)

THE OHIO STATE UNIVERSITY RESEARCH FOUNDATION (contd)

Federal Research Contracts/Grants (contd)

\$15,696.00 - Department of the Army, Army Material Command, Natick, Massachusetts, Water Purification Devices, Department of Civil Engineering (A. J. Rubin), 6 August 1987 through 5 August 1989. (Project 766319 - Continuation)

\$12,000.00 - National Science Foundation, Washington, D.C., A Novel Approach in Formulation of Special Finite Elements, Department of Aeronautical and Astronautical Engineering (N. Sarigul), 1 October 1987 through 30 September 1988. (Project 766399 - New)

\$10,000.00 - Department of Agriculture, Soil Conservation Service, Columbus, Ohio, Socio-Economic Factors Affecting the Adoption of Soil Erosion Control Practices, Department of Agricultural Economics and Rural Sociology - OARDC and Department of Agricultural Economics and Rural Sociology (T. L. Napier), 30 September 1987 through 29 September 1988. (Project 766387 - New)

\$7,424.00 - Department of Health and Human Services, Public Health Service, National Institutes of Health, Bethesda, Maryland, B-Glucuronidase Inhibition and Chemical Carcinogenesis, Department of Physiological Chemistry and Comprehensive Cancer Center (T. E. Webb), 1 August 1986 through 31 March 1988. (Project 764291 - Continuation)

\$1,730.00 - Department of Transportation, National Highway Traffic Safety Administration, East Liberty, Ohio, Pedestrian Head Injury Test Matrix Analysis, Department of Statistics (P. K. Goel), 1 June 1987 through 15 October 1987. (Project 766431 - New)

\$750.00 - Department of Education, Office of Special Education and Rehabilitation Services, Washington, D.C., Parent-Child Conversation: A Longitudinal Project for Research into Intervention with Language-Delayed Handicapped Children, Nisonger Center (J. MacDonald), 1 October 1987 through 30 September 1988. (Project 764417 - Continuation)

TOTAL - FEDERAL AWARDS **\$5,161,690.00**

State of Ohio Research Contracts/Grants

\$125,000.00 - State of Ohio, Department of Development, Columbus, Ohio, Support for the Ohio Technology Transfer Organization (OTTO), Department of Mechanical Engineering and Academic Affairs Administration (R. E. Bailey), 1 July 1987 through 30 June 1988. (Project 766212 - Continuation)

\$100,640.00 - State of Ohio, Department of Education, Columbus, Ohio, Reading Recovery Project, Department of Educational Theory and Practice (G. S. Pinnell), 1 July 1987 through 30 September 1988. (Project 766394 - Continuation)

\$86,748.00 - State of Ohio, Department of Education, Columbus, Ohio, A Computer-Based Network to Assist Handicapped Youths' Transition from School to Work: A Four-Part Model, The National Center for Research in

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REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)

THE OHIO STATE UNIVERSITY RESEARCH FOUNDATION (contd)

State of Ohio Research Contracts/Grants (contd)

Vocational Education (R. D. Ryan), 1 September 1987 through 31 August 1988. (Project 766450 - Continuation)

\$45,100.00 - State of Ohio, Department of Health, Columbus, Ohio, Comprehensive Adult Hemophilia Clinic, Department of Internal Medicine (S. P. Balcerzak), 1 July 1987 through 30 June 1988. (Project 762760 - Continuation)

\$41,491.00 - State of Ohio, Department of Education, Columbus, Ohio, Intervention Assistance Team, College of Education - Administration (T. M. Stephens), 1 September 1987 through 31 August 1988. (Project 766444 - New)

\$23,680.00 - State of Ohio, Department of Education, Columbus, Ohio, Assisting the Ohio Division of Vocational Education Coordinate Linkage Between Occupational/Work Adjustment Programs and Job Training Partnership Administration, The National Center for Research in Vocational Education (R. D. Ryan), 25 August 1987 through 30 June 1988. (Project 766435 - New)

\$16,913.00 - State of Ohio, Department of Youth Services, Columbus, Ohio, Graduate Student Internships, Department of Human Services Education (M. D. Orlansky), 1 October 1987 through 30 June 1988. (Project 766412 - Continuation)

\$7,125.00 - State of Ohio, Department of Human Services, Columbus, Ohio, Assessment and Placement Issues Involved in Adoption of Developmentally Disabled Children, Nisonger Center (S. R. Schroeder and V. L. Reynolds), 1 July 1987 through 30 September 1987. (Project 766442 - Continuation)

TOTAL - STATE OF OHIO AWARDS \$ 446,697.00

Industrial Research Contracts/Grants

\$500,000.00 - Cray Research, Inc., Mendota Heights, Minnesota, Research and Development Agreement with Cray Research, Inc., Research and Graduate Studies Administration (J. M. Hollander) and Ohio Supercomputer Program (C. W. McCurdy), 1 November 1987 through 31 October 1988. (Project 766446 - New)

\$100,000.00 - Adria Laboratories, Dublin, Ohio, Clinical Pharmacology Research Unit, Department of Pharmacology (N. Gerber), 1 October 1987 through 30 September 1988. (Project 766439 - New)

\$80,131.00 - CeramPhysics, Inc., Westerville, Ohio, Research on High-Specific-Heat Dielectrics, Department of Physics (B. R. Patton), 1 September 1987 through 28 February 1989. (Project 765369 - Continuation)

\$76,344.00 - SYMEDIX, Inc., Wayne, Pennsylvania, Fluorocarbon Emulsions, College of Pharmacy (S. G. Frank), 1 October 1987 through 31 March 1988. (Project 766429 - New)

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REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)

THE OHIO STATE UNIVERSITY RESEARCH FOUNDATION (contd)

Industrial Research Contracts/Grants (contd)

\$56,250.00 - Genentech, Inc., South San Francisco, California, Recombinant Human Interferon-Gamma for the Adjuvant Treatment of High Risk Malignant Melanoma, Department of Internal Medicine (J. J. Rinehart), 1 September 1987 through 1 September 1990. (Project 766426 - New)

\$54,000.00 - Pioneer Hi-Bred International, Inc., Johnston, Iowa, Mutation and Screening for Phytophthora Resistant Tissue Culture Regenerant Plants, Department of Plant Pathology - OARDC (A. F. Schmitthenner and A. F. Olah), 1 October 1987 through 30 September 1989. (Project 766440 - New)

\$51,750.00 - Procter & Gamble Company, Cincinnati, Ohio, Effects of Coffee Consumption on Lower Esophageal Sphincter Pressure, Department of Internal Medicine (T. S. Gaginella and F. B. Thomas), 15 October 1987 through 15 October 1988. (Project 766436 - New)

\$37,639.00 - Pfizer, Inc., Groton, Connecticut, Phase I Double-Blind, Placebo-Controlled, Escalating Single, Divided Dose Pharmacokinetics and Tolerantion Study of Oral CP-66,948 in Normal Male Volunteers, Department of Pharmacology (N. Gerber), 1 June 1987 through 30 June 1988. (Project 765696 - Continuation)

\$35,000.00 - Hoffman-LaRoche, Inc., Nutley, New Jersey, Ro 23-6457: Effects on the Alloantigen-Specific Cellular and Humoral Immune Responses in Murine Recipients of Sponge Matrix Allografts, Department of Surgery (C. G. Orosz and R. M. Ferguson), 1 September 1987 through 31 August 1988. (Project 766438 - New)

\$31,512.00 - Pfizer, Inc., Groton, Connecticut, Phase I Bioavailability Study Comparing the CP-62,993 Old Bulk Capsule and the New CP-62,993 Pediatric Suspension, Department of Pharmacology (N. Gerber), 20 August 1987 through 19 August 1988. (Project 765696 - Continuation)

\$13,163.00 - Pfizer, Inc., Groton, Connecticut, Rechallenge of Patients in Phase I CP-62,993 Multiple Dose Absorption and Pharmacokinetic Study, Department of Pharmacology (N. Gerber), 15 June 1987 through 31 December 1987. (Project 765696 - Continuation)

\$12,070.00 - Pfizer, Inc., Groton, Connecticut, Phase I Proportionality Study of 50 mg, 100 mg and 200 mg of Commercial 50 mg Preparation of Sertraline, Department of Pharmacology (N. Gerber), 1 October 1986 through 30 September 1987. (Project 765696 - Continuation)

\$11,114.00 - Polymer Technology Corporation, Wilmington, Massachusetts, The Measurement of Corneal Swelling Induced After Overnight Wearing of Boston Equalens II Contact Lens, College of Optometry (G. J. Andrasko), 1 October 1987 through 31 January 1988. (Project 766432 - New)

\$9,403.00 - AT&T Bell Laboratories, Columbus, Ohio, Improving the Written Communication Skills of Nonnative Speakers of English in the Work Setting Through Individualized Tutorial, Department of English/Second Language

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REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)

THE OHIO STATE UNIVERSITY RESEARCH FOUNDATION (contd)

Industrial Research Contracts/Grants (contd)

(R. N. Kantor), 1 October 1987 through 31 December 1987. (Project 766428 - Continuation)

\$6,921.00 - Sandia National Laboratories, Albuquerque, New Mexico, Polar and Non-Polar Diatomic Molecule Scattering from the Surfaces of Solids, Department of Chemistry (P. L. Jones), 1 October 1987 through 31 December 1987. (Project 766441 - New)

\$1,762.00 - Pfizer, Inc., Groton, Connecticut, Phase I Double-Blind, Placebo-Controlled, Single Dose Study to Establish Toleration, Pharmacokinetics, and Bioavailability of CP-74,725, Department of Pharmacology (N. Gerber), 1 June 1987 through 31 May 1988. (Project 765696 - Continuation)

\$1,520.00 - Financial Labs, Inc., Bexley, Ohio, An Investigation of International Money and Bond Market Risk Management, Academic Faculty of Finance (W. B. Bailey), 1 August 1987 through 31 December 1987. (Project 766406 - New)

\$468.00 - CIBA-GEIGY Corporation, Greensboro, North Carolina, Evaluation of Candidate Materials for the Control of Ectoparasitic Insects, Department of Entomology (W. F. Hink), 1 June 1987 through 1 December 1987. (Project 766087 - Continuation)

TOTAL - INDUSTRIAL AWARDS

\$1,079,047.00

Other Non-Federal Research Contracts/Grants

\$231,330.00 - W. K. Kellogg Foundation, Battle Creek, Michigan, Commission on Interprofessional Education and Practice, Department of Educational Policy and Leadership (L. L. Cunningham), 1 October 1987 through 30 September 1988. (Project 762825 - Continuation)

\$73,791.00 - The Cleveland Foundation, Cleveland, Ohio, Business Development, Trade and State Policy, School of Public Administration (W. T. Dyke), 1 July 1987 through 30 June 1989. (Project 766397 - New)

\$64,600.00 - Consolidated Edison Company of New York, New York, New York and Florida Power Corporation, Crystal River, Florida, Consortium for the Development of Instructor Training Materials for the Electric Power Industry -- Phase II, The National Center for Research in Vocational Education (R. D. Ryan), 1 September 1987 through 31 December 1988. (Project 766021 - Continuation)

\$61,069.00 - American Quarter Horse Association, Amarillo, Texas, Dietary Zinc in Developmental Orthopedic Disease of Foals, Department of Veterinary Clinical Sciences (A. A. Gabel), 1 October 1987 through 30 September 1988. (Project 766430 - New)

\$45,157.00 - Harvard University, Cambridge, Massachusetts, What Factors Influence How Long Math and Science Teachers Stay in Teaching?, Center

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REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)

THE OHIO STATE UNIVERSITY RESEARCH FOUNDATION (contd)

Other Non-Federal Research Contracts/Grants (contd)

for Human Resource Research (R. J. Olsen), 1 September 1987 through 28 February 1989. (Project 765544 - Continuation)

\$37,657.00 - Pennsylvania Department of Education, Harrisburg, Pennsylvania, Consortium for the Development of Professional Materials for Vocational Education, The National Center for Research in Vocational Education (R. D. Ryan), 1 July 1987 through 30 June 1988. (Project 766419 - Continuation)

\$34,177.00 - Helen Keller National Center for Deaf-Blind Youth and Adults, Sands Point, New York, Technical Assistance to Helen Keller National Center, College of Education - Administration (T. M. Stephens), 1 October 1987 through 30 September 1988. (Project 766393 - Continuation)

\$23,858.00 - Florida International University, Miami, Florida, Consortium for the Development of Professional Materials for Vocational Education, The National Center for Research in Vocational Education (R. D. Ryan), 1 July 1987 through 30 June 1988. (Project 766400 - Continuation)

\$19,300.00 - University of Pittsburgh, Pittsburgh, Pennsylvania, The Treatment of Primary Breast Cancer, Department of Surgery (W. B. Farrar), 1 April 1987 through 31 January 1988. (Project 763659 - Continuation)

\$15,000.00 - New Jersey Institute of Technology, Newark, New Jersey, Participation in National Science Foundation Industry/University Cooperative Research Center for Gas Cleaning, Department of Chemical Engineering (J. L. Zakin), 1 September 1987 through 28 February 1989. (Project 766366 - New)

\$10,000.00 - National Association of Realtors, Chicago, Illinois, Home Ownership Conference, Academic Faculty of Finance and Center for Real Estate Education and Research (R. L. Racster), 1 September 1987 through 31 August 1988. (Project 766403 - New)

\$10,000.00 - Georgia Office of Vocational Education, Atlanta, Georgia; Kentucky Office of Vocational Education, Frankfort, Kentucky; Mississippi State University, Mississippi State, Mississippi; and Oklahoma Department of Vo-Tech, Stillwater, Oklahoma, National Consortium of State Career Guidance Supervisors, The National Center for Research in Vocational Education (R. D. Ryan), 1 July 1987 through 30 June 1988. (Project 766331 - Continuation)

\$6,000.00 - North Central Regional Center for Rural Development, Ames, Iowa, Family Community Leadership Workshop, Cooperative Extension State Operations (J. M. Jones), 1 March 1987 through 30 April 1987. (Project 766423 - New)

\$2,700.00 - American Nurses' Foundation, Inc., Kansas City, Missouri, Homeless Women and Their Families, Department of Family and Community Nursing (J. D. Wagner), 1 October 1987 through 30 September 1988. (Project 766404 - New)

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REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)

THE OHIO STATE UNIVERSITY RESEARCH FOUNDATION (contd)

Other Non-Federal Research Contracts/Grants (contd)

\$2,500.00 - The Columbus Jewish Foundation, Columbus, Ohio, A Multi-Media Renaissance Theatre and T.V. Production of A Comedy of Retrothal, Department of Theatre (A. S. Golding), 1 July 1987 through 30 June 1988. (Project 766414 - New)

\$1,000.00 - The Leo Yassenoff Foundation, Columbus, Ohio, Presentation of Paul Taylor's AUREOLE, Department of Dance (M. R. Pierson), 1 January 1987 through 30 June 1988. (Project 766407 - New)

\$678.85 - Utah Technical College, Provo, Utah, National Alliance of Community and Technical Colleges, The National Center for Research in Vocational Education (R. D. Ryan), 1 July 1987 through 30 June 1988. (Project 766171 - Continuation)

TOTAL - OTHER NON-FEDERAL AWARDS **\$ 638,817.85**

ENGINEERING EXPERIMENT STATION

State Sponsored Research and Development

\$16,008.00 - Additional budget from Thomas A. Edison Program, Columbus, OH, and International TechneGroup Inc., Milford, OH, "Development of Design and Analysis Algorithms for Machine Components," Department of Mechanical Engineering, 2 February 1985 through 30 September 1987. (312831, Ext. 2)

\$9,933.00 - Additional budget from Thomas A. Edison Program, Columbus, OH, and Universal Energy Systems, Inc., Dayton, OH, "Advanced Simulation Language and Multicomputer Design for Improving the Performance of Modeling and Control of Metal Forming," Department of Computer and Information Science, 12 October 1985 through 31 December 1987. (529697, Ext. 1)

TOTAL - STATE SPONSORED RESEARCH **\$ 25,941.00**

Industrial and Other Sponsored Research and Development

\$180,913.00 - Additional funding from Battelle Columbus Labs, Columbus, OH, "Evaluate and Test Heat Pump Component Performance," Department of Mechanical Engineering, 1 August 1987 through 30 June 1988. (312858, Ext. 2)

\$136,690.00 - Gas Research Institute, Chicago, IL, "Applications of Advanced Heat Transfer; Doubly-Fluted Tubes and Enhanced Tubes in Confined Crossflow," Department of Mechanical Engineering, 1 August 1987 through 31 December 1988. (529738)

\$77,000.00 - Additional budget from Southwest Research Institute, San Antonio, TX, "A Fracture Mechanics Assessment of the Slow Crack Growth Test for Polyethylene Gas Pipes," Department of Engineering Mechanics, 15 April 1987 through 31 May 1988. (529727, Ext. 3)

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REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)

ENGINEERING EXPERIMENT STATION (contd)

Industrial and Other Sponsored Research and Development (contd)

\$75,000.00 - General Electric Company, Cincinnati, OH, "Testing of the GE36 Unducted Fan Engine Simulator in Three Existing Engine Test Case Models," Department of Aeronautical and Astronautical Engineering, 1 September 1987 through 28 February 1988. (312433)

\$40,000.00 - Funding of memberships to the Compact Range Consortium, Department of Electrical Engineering, 1 July 1987 through 30 June 1988. (312884)

\$30,831.00 - from 20 sponsors of 25 development projects under the direction of two research areas of the College of Engineering.

\$30,000.00 - B. F. Goodrich Company, Uniontown, OH, "A Three-Dimensional Droplet Impingement Analysis for Aircraft Icing," Department of Aeronautical and Astronautical Engineering, 1 October 1987 through 30 September 1988. (529741)

TOTAL - INDUSTRIAL AND OTHER SPONSORED RESEARCH **\$ 570,434.00**

THE OHIO STATE UNIVERSITY DEVELOPMENT FUND

Establishment of Named Funds

The A. Sophie Rogers Memorial Fund

The A. Sophie Rogers Memorial Fund was established December 4, 1987, by the Board of Trustees of The Ohio State University with gifts to The Ohio State University Development Fund from the A. Sophie Rogers Foundation, Columbus, Ohio.

All gifts are to be invested in the University's Permanent Endowment Fund, under the rules and regulations adopted by the Board of Trustees of The Ohio State University, with the right to invest and reinvest as occasion dictates.

The annual income shall be used to provide continuing support for The A. Sophie Rogers Laboratory for Child and Family Studies.

It is the desire of the donor that this fund should benefit the University in perpetuity. If the need for this fund should cease to exist or so diminish as to provide unused income, then another use shall be designated by the Board of Trustees in consultation with the Dean of the College of Home Economics in order to carry out the desire of the donor.

**Mark L. Morris Veterinary Clinical Nutrition
Research and Education Fund**

The Mark L. Morris Veterinary Clinical Nutrition Research and Education Fund was established December 4, 1987, by the Board of Trustees of The Ohio State University with gifts to The Ohio State University Development

December 3 and 4, 1987 meeting, Board of Trustees

REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)

THE OHIO STATE UNIVERSITY DEVELOPMENT FUND (contd)

Establishment of Named Funds (contd)

**Mark L. Morris Veterinary Clinical Nutrition
Research and Education Fund (contd)**

Fund from Mark Morris Associates and Hill's Pet Products, Inc., Topeka, Kansas.

All gifts are to be invested in the University's Permanent Endowment Fund, under the rules and regulations adopted by the Board of Trustees of The Ohio State University, with the right to invest and reinvest as occasion dictates.

The annual income shall be used in the College of Veterinary Medicine to provide resources for clinical research and education in nutritional diseases of domestic animals. Expenditures from the fund will be authorized by the Dean of the College of Veterinary Medicine.

It is the desire of the donors that this fund should benefit the University in perpetuity. If the need for this fund should cease to exist or so diminish as to provide unused income, then another use shall be designated by the Board of Trustees in order to carry out the desire of the donors.

**The Flo C. and Merrill H. Amos
Cooperative Extension Innovation Fund**

The Flo C. and Merrill H. Amos Cooperative Extension Innovation Fund was established December 4, 1987, by the Board of Trustees of The Ohio State University with gifts to The Ohio State University Development Fund from the estates of Merrill H. Amos and his mother, Flo C. Amos of Frederickstown, Ohio.

All gifts are to be invested in the University's Permanent Endowment Fund, under the rules and regulations adopted by the Board of Trustees of The Ohio State University, with the right to invest and reinvest as occasion dictates.

The annual income shall be used to fund Innovative Cooperative Extension Service Programs at the county and state levels. The director of the Ohio Cooperative Extension Service shall determine how such funds are to be utilized and shall approve all expenditures.

It is the desire of the donors that this fund should benefit the University in perpetuity. If the need for this fund should cease to exist or so diminish as to provide unused income, then another use shall be designated by the Board of Trustees in consultation with the appropriate college dean, department chairperson, or program administrative officer in order to carry out the desire of the donors.

December 3 and 4, 1987 meeting, Board of Trustees

REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)

THE OHIO STATE UNIVERSITY DEVELOPMENT FUND (contd)

Establishment of Named Funds (contd)

William S. and Marguerite C. Price Scholarship Award

The William S. and Marguerite C. Price Scholarship Award was established December 4, 1987, by the Board of Trustees of The Ohio State University with gift(s) to The Ohio State University Development Fund from the estate of Marguerite C. Price of Columbus, Ohio.

All gifts are to be invested in the University's Permanent Endowment Fund, under the rules and regulations adopted by the Board of Trustees of The Ohio State University, with the right to invest and reinvest as occasion dictates.

The annual income shall be used to provide scholarship assistance for students majoring in French language and/or culture. This award will be made by a faculty committee drawn from the French section of the Department of Romance Languages and Literatures and named by the Chairperson of the Department of Romance Languages and Literatures in consultation with the University Committee on Student Financial Aid. Primary selection for this scholarship award will be based on academic performance. A minimum of two students per year will be selected.

It is the desire of the donor that this fund should benefit the University in perpetuity. If the need for this fund should cease to exist or so diminish as to provide unused income, then another use shall be designated by the Board of Trustees in order to carry out the desire of the donor.

**The Deloitte Haskins & Sells
Accounting Professorship Fund**

The Deloitte Haskins & Sells Accounting Professorship Fund was established December 4, 1987, by the Board of Trustees of The Ohio State University with gifts to The Ohio State University Development Fund from the partners of Deloitte Haskins & Sells and the Deloitte Haskins & Sells Foundation.

All gifts are to be invested in the University's Permanent Endowment Fund, under the rules and regulations adopted by the Board of Trustees of The Ohio State University, with the right to invest and reinvest as occasion dictates.

The annual income shall be added to the Deloitte Haskins & Sells Accounting Professorship Fund's principal until the Fund's principal accumulates to \$500,000. Thereafter, the annual income shall be used to provide a professorship in accounting in the College of Business. Appointment to The Deloitte Haskins & Sells Accounting Professorship will be recommended by the Dean of the College of Business to the Provost and approved by the Board of Trustees.

It is the desire of the donor(s) that this fund should benefit the University in perpetuity. If the need for this fund should cease to

December 3 and 4, 1987 meeting, Board of Trustees

REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)

THE OHIO STATE UNIVERSITY DEVELOPMENT FUND (contd)

Establishment of Named Funds (contd)

**The Deloitte Haskins & Sells
Accounting Professorship Fund (contd)**

exist or so diminish as to provide unused income, then the income, with the approval of the chairman of Deloitte Haskins & Sells, may be used for any purpose whatsoever as determined by the Board of Trustees, with preference being given to recommendations from the appropriate administrative official of the University who is then directly responsible for business education.

The Clabaugh Glaucoma Research Fund

The Clabaugh Glaucoma Research Fund was established December 4, 1987, by the Board of Trustees of The Ohio State University, with gifts to The Ohio State University Development Fund, from the estate of Helen C. Clabaugh (B.S.H.E. '24).

All gifts are to be invested in the University's Permanent Endowment Fund, under the rules and regulations adopted by the Board of Trustees of The Ohio State University, with the right to invest and reinvest as occasion dictates.

All annual income shall be used to support research with respect to the cure and treatment of glaucoma within the Department of Ophthalmology at The Ohio State University College of Medicine. All expenditures shall be approved by the Chairperson of the Department of Ophthalmology with the Dean of the College of Medicine.

It is the desire of the donor that this fund should benefit the University in perpetuity. If the need for this fund should cease to exist or so diminish as to provide unused income, then another use shall be designated by the Board of Trustees, with preference being given to recommendations from the administrative official then directly responsible for the Department of Ophthalmology, in order to carry out the desire of the donor.

Crane Fund for Hispanic Studies

The Crane Fund for Hispanic Studies was established December 4, 1987, by the Board of Trustees of The Ohio State University with gift(s) to The Ohio State University Development Fund by LoAnn Crane (B.A., Spanish, '47) of Columbus, Ohio.

All gifts are to be invested in the University's Permanent Endowment Fund, under the rules and regulations adopted by the Board of Trustees of The Ohio State University, with the right to invest and reinvest as occasion dictates.

The annual income shall be used to support the instruction and research missions of the Department of Romance Languages and Literatures in the

December 3 and 4, 1987 meeting, Board of Trustees

REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)

THE OHIO STATE UNIVERSITY DEVELOPMENT FUND (contd)

Establishment of Named Funds (contd)

Crane Fund for Hispanic Studies (contd)

area of Hispanic studies. The income will be used at the discretion of the chairperson in consultation with the faculty of the Spanish section to support the missions of the Department.

It is the desire of the donor that this fund should benefit the University in perpetuity. If the need for this fund should cease to exist or so diminish as to provide unused income, then another use shall be designated by the Board of Trustees in order to carry out the desire of the donor.

The Gerry D. Guthrie Scholarship Award

The Gerry D. Guthrie Scholarship Award was established December 4, 1987, by the Board of Trustees of The Ohio State University with gifts to The Ohio State University Development Fund from Mrs. Cecile Guthrie, George P. Guthrie, Jr., and a matching gift from Rockwell International Corporation Trust.

All gifts are to be invested in the University's Permanent Endowment Fund, under the rules and regulations adopted by the Board of Trustees of The Ohio State University, with the right to invest and reinvest as occasion dictates.

The annual income shall be used to present The Gerry D. Guthrie Scholarship Award to the undergraduate or graduate student majoring in United States history who writes the best paper on the Civil War. Students in their freshman year are eligible to receive the award. A student may not receive the award more than two consecutive years. Selection of the student will be made by the Student Awards Committee of the Department of History, in consultation with the University Committee on Student Financial Aid. If the Student Awards Committee deems that no student paper qualifies for the award in a particular year, the award does not have to be made, and the income will be awarded the following year.

It is the desire of the donors that this fund should benefit the University in perpetuity. If the need for this fund should cease to exist or so diminish as to provide unused income, then another use shall be designated by the Board of Trustees, with preference being given to the recommendations from the appropriate administrative official of the University who is then directly responsible for the College of Humanities, in order to carry out the desire of the donors.

The Historic Costume and Textiles Collection Fund

The Historic Costume and Textiles Collection Fund was established December 4, 1987, by the Board of Trustees of The Ohio State University with gifts to The Ohio State University Development Fund from The Friends

December 3 and 4, 1987 meeting, Board of Trustees

REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)

THE OHIO STATE UNIVERSITY DEVELOPMENT FUND (contd)

Establishment of Named Funds (contd)

The Historic Costume and Textiles Collection Fund (contd)

of The Historic Costume and Textiles Collection, Department of Textiles and Clothing, College of Home Economics, The Ohio State University.

All gifts are to be invested in the University's Permanent Endowment Fund, under the rules and regulations adopted by the Board of Trustees of The Ohio State University, with the right to invest and reinvest as occasion dictates.

The annual income shall be used to provide continuing support to the Historic Costume and Textiles Collection, Department of Textiles and Clothing, College of Home Economics, The Ohio State University. Expenditures from the fund shall be authorized by the Chairperson of the Department of Textiles and Clothing, in consultation with the Dean of the College of Home Economics.

It is the desire of the donors that this fund should benefit the University in perpetuity. If the need for this fund should cease to exist or so diminish as to provide unused income, then another use shall be designated by the Board of Trustees, in consultation with the Dean of the College of Home Economics and the Chairperson of the Department of Textiles and Clothing, in order to carry out the desire of the donors.

Change in Description of Named Fund

**Alumni Scholarship Fund
The College of Social Work**

The Alumni Scholarship Fund - The College of Social Work was established September 6, 1985, by the Board of Trustees of The Ohio State University with gifts to The Ohio State University Development Fund from The Ohio State University College of Social Work Alumni Association. The description was changed December 4, 1987.

All gifts are to be invested in the University's Permanent Endowment Fund, under the rules and regulations adopted by the Board of Trustees of The Ohio State University, with the right to invest and reinvest as occasion dictates.

The annual income is to be used to provide one or more scholarships for approved candidates for a doctorate, a master's, or a bachelor's degree in social work. The scholarship will be awarded based on financial need with consideration of academic ability. The selection of the recipient(s) is to be made upon the recommendation of the College of Social Work's Financial Aid Committee in consultation with the Dean of the College of Social Work and an alumni representative appointed by the College of Social Work Alumni Association Executive Committee.

Should the need for these scholarships cease to exist or so diminish as to provide unused income, then the income may be used for any purpose

December 3 and 4, 1987 meeting, Board of Trustees

REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)

THE OHIO STATE UNIVERSITY DEVELOPMENT FUND (contd)

Change in Description of Named Fund (contd)

**Alumni Scholarship Fund
The College of Social Work (contd)**

whatsoever as determined by the Board of Trustees, with preference being given to recommendations from the appropriate administrative official of the University who is then directly responsible for social work education.

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**REPORT OF AWARD OF CONTRACTS AND
ESTABLISHMENT OF CONTINGENCY FUNDS**

Resolution No. 88-65

Synopsis: Contracts have been awarded for the projects listed below to the lowest and best bidders in accordance with University procedures.

WHEREAS resolutions adopted by the Board of Trustees at previous meetings authorized the President and/or Vice President for Business and Administration to sign the plans and specifications and, in accordance with established University procedures, to request bids and, if satisfactory bids were received, to award contracts for the Central Service Building Renovation, Kinnear Road Center Buildings C & E - Roof Replacement, Doan Hall 2 North - Gastroenterology, and Lord Hall - Heating Plant Coverter projects; and

WHEREAS resolutions adopted by the Board of Trustees at previous meetings authorized the President and/or Vice President for Business and Administration to sign the plans and specifications and, in accordance with established University procedures, to request bids and, if satisfactory bids were received, to recommend to the Department of Administrative Services, Division of Public Works, the award of contracts for the Baker Systems Engineering - Air Handling System Improvements project, as follows:

**CENTRAL SERVICE BUILDING RENOVATION
(DEMOLITION PORTION)**

Description: This phase of the project provides for the removal of interior partitions and existing walls, cutting holes in floor slabs for the installation of new duct work, and the removal of exterior canopies. This demolition is to prepare the north section of the Central Service Building for a major upgrading. Demolition began November 12, 1987, and is to be completed within sixty days.

General Contract

Date Received: October 21, 1987

No. of Bids: 4

December 3 and 4, 1987 meeting, Board of Trustees

**REPORT OF AWARD OF CONTRACTS AND
ESTABLISHMENT OF CONTINGENCY FUNDS (contd)**

**CENTRAL SERVICE BUILDING RENOVATION
(DEMOLITION PORTION) (contd)**

General Contract (contd)

Low Bid:	\$148,000.00
High Bid:	\$169,870.00
Estimate of Cost:	\$185,000.00
Awarded to:	Buffalo Contractors, Columbus, OH
Total All Contracts:	\$148,000.00
Total Contingency Allowance:	\$ 11,840.08 (which is 8% of construction costs)
Total Project Cost:	\$161,290.00
Funding:	University Funds

**KINNEAR ROAD CENTER BUILDINGS C & E
ROOF REPLACEMENT**

Description: This project provides for the removal of the deteriorated roof and installation of a complete new roofing system. Construction is scheduled to begin November 1987, and be completed within sixty days.

General Contract

Date Received:	October 20, 1987
No. of Bids:	6
Low Bid:	\$119,994.00
High Bid:	\$138,577.00
Estimate of Cost:	\$158,000.00
Awarded to:	C. R. Huffer Roofing, Columbus, OH
Total All Contracts:	\$119,994.00
Total Contingency Allowance:	\$ 9,599.58 (which is 8% of construction costs)
Total Project Cost:	\$131,043.50
Funding:	University Funds

December 3 and 4, 1987 meeting, Board of Trustees

**REPORT OF AWARD OF CONTRACTS AND
ESTABLISHMENT OF CONTINGENCY FUNDS (contd)**

DOAN HALL 2 NORTH - GASTROENTEROLOGY

Description: This project provides for the renovation of a former x-ray room and a computer room into a procedure/treatment room and laboratory. Construction is scheduled to begin in December 1987, and be completed within one hundred fifty days.

General Contract

Date Received:	October 30, 1987
No. of Bids:	8
Low Bid:	\$ 51,960.00
High Bid:	\$ 91,140.00
Estimate of Cost:	\$ 85,000.00
Awarded to:	Waller & Lund, Columbus, OH

Mechanical Contract

Date Received:	October 30, 1987
No. of Bids:	3
Low Bid:	\$ 22,900.00
High Bid:	\$ 27,000.00
Estimate of Cost:	\$ 27,000.00
Awarded to:	Farber Corp., Columbus, OH

Electric Contract

Date Received:	October 30, 1987
No. of Bids:	4
Low Bid:	\$ 14,370.00
High Bid:	\$ 20,725.00
Estimate of Cost:	\$ 18,000.00
Awarded to:	Frush & Homan, Columbus, OH

Total All Contracts:	\$ 89,230.00
Total Contingency Allowance:	\$ 8,923.00 (which is 10% of construction costs)
Total Project Cost:	\$122,052.00

December 3 and 4, 1987 meeting, Board of Trustees

**REPORT OF AWARD OF CONTRACTS AND
ESTABLISHMENT OF CONTINGENCY FUNDS (contd)**

DOAN HALL 2 NORTH - GASTROENTEROLOGY (contd)

Funding: University Hospitals Fund

**BAKER SYSTEMS ENGINEERING -
AIR HANDLING SYSTEM IMPROVEMENTS**

Description: This project provides for the installation of an air conditioning system to the second floor rear section of the building which currently has no such system. Construction is scheduled to begin December 1987, and be completed by the start of Autumn Quarter 1988.

General Contract

Date Received:	October 15, 1987
No. of Bids:	3
Low Bid:	\$ 26,380.00*
High Bid:	\$ 33,170.00*
Estimate of Cost:	\$ 64,792.00*
Awarded to:	Waller & Lund Inc., Columbus, OH

HVAC Contract

Date Received:	October 15, 1987
No. of Bids:	2
Low Bid:	\$ 18,411.00*
High Bid:	\$ 23,200.00*
Estimate of Cost:	\$ 47,661.00*
Awarded to:	Martina Metal Contractors, Columbus, OH

Electric Contract

Date Received:	October 15, 1987
No. of Bids:	6
Low Bid:	\$ 33,090.00*
High Bid:	\$ 44,110.00*
Estimate of Cost:	\$ 51,576.00*
Awarded to:	Reco Electric Inc., Gahanna, OH

*Recommended alternates reflected in these figures.

December 3 and 4, 1987 meeting, Board of Trustees

**REPORT OF AWARD OF CONTRACTS AND
ESTABLISHMENT OF CONTINGENCY FUNDS (contd)**

**BAKER SYSTEMS ENGINEERING -
AIR HANDLING SYSTEM IMPROVEMENTS (contd)**

Total All Contracts:	\$ 77,881.00*
Total Contingency Allowance:	\$ 9,344.98 (which is 12% of construction costs)
Total Project Cost:	\$116,350.00*
Funding:	H.B. 870 U & R

*Recommended alternates reflected in these figures.

LORD HALL - HEATING PLANT CONVERTER

Description: This project provides for the demolition and removal of existing heating equipment, piping and ductwork; installation of new heating equipment, piping and controls; and connection to hot water piping which will be installed as part of the "Lord/Hopkins Renovation-Relocation of Art Laboratories" project. Construction is scheduled to begin after the current heating season tentatively April 15, 1988, and be completed before September 15, 1988.

HVAC Contract

Date Received:	November 10, 1987
No. of Bids:	7
Low Bid:	\$ 69,700.00
High Bid:	\$102,580.00
Estimate of Cost:	\$108,000.00
Awarded to:	J. A. Guy, Dublin, OH
Total All Contracts:	\$ 69,700.00
Total Contingency Allowance:	\$ 6,312.00 (which is 9% of construction costs)
Total Project Cost:	\$ 77,812.00
Funding:	University Funds

NOW THEREFORE

BE IT RESOLVED, That pursuant to the actions previously authorized by the Board, the award of contracts and the establishment of project funds and contingency funds for the projects listed above are hereby approved.

December 3 and 4, 1987 meeting, Board of Trustees

**REPORT OF AWARD OF CONTRACTS AND
ESTABLISHMENT OF CONTINGENCY FUNDS (contd)**

Upon motion of Mr. Teaford, seconded by Mr. Berry, the Board of Trustees adopted the foregoing resolution by unanimous roll call vote.

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**EASEMENT
COLUMBIA GAS OF OHIO, INC.**

Resolution No. 88-66

Synopsis: Renewal of gas line easement to Columbia Gas of Ohio, Inc., is requested.

WHEREAS in 1972 the University granted a 15-year easement consisting of a strip of land fifteen feet wide along the northerly edge of Case Road for the purpose of providing gas service at Don Scott Field; and

WHEREAS this easement will serve University property; and

WHEREAS the appropriate University offices have recommended that this easement be renewed:

NOW THEREFORE

BE IT RESOLVED, That the President and/or Vice President for Business and Administration be authorized to request the Deputy Director of Public Works of the Department of Administrative Services, pursuant to his statutory duties, to act for and on behalf of the University in developing the necessary legal instruments to provide for this easement.

Upon motion of Mr. Wolf, seconded by Mr. Berry, the Board of Trustees adopted the foregoing resolution by unanimous roll call vote.

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**EASEMENT
OHIO BELL TELEPHONE COMPANY**

Resolution No. 88-67

Synopsis: Renewal of telephone cable easement to the Ohio Bell Telephone Company is requested.

WHEREAS in 1972 the University granted the Ohio Bell Telephone Company a 15-year easement for buried telephone cable at Don Scott Field; and

WHEREAS this easement will serve University property; and

WHEREAS the appropriate University offices have recommended that this easement be renewed:

NOW THEREFORE

December 3 and 4, 1987 meeting, Board of Trustees

EASEMENT
OHIO BELL TELEPHONE COMPANY (contd)

BE IT RESOLVED, That the Vice President for Business and Administration be authorized to request the Deputy Director of Public Works of the Department of Administrative Services, pursuant to his statutory duties, to act for and on behalf of the University in developing the necessary legal instruments to provide for this easement.

Upon motion of Mr. Berry, seconded by Mr. Teaford, the Board of Trustees adopted the foregoing resolution by unanimous roll call vote.

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EASEMENT
CITY OF COLUMBUS

Resolution No. 88-68

Synopsis: Authorization to grant an easement to the City of Columbus for construction of a bike path along the Olentangy River is requested.

WHEREAS the City of Columbus has requested a 15-year easement consisting of a strip of land 1400 feet in length and 75 feet in width for the construction of a bike path at 350 Dodridge Street; and

WHEREAS the bike path will serve many bicyclists and pedestrians; and

WHEREAS the appropriate University offices have recommended that this easement be granted:

NOW THEREFORE

BE IT RESOLVED, That the President and/or Vice President for Business and Administration be authorized to request the Deputy Director of Public Works of the Department of Administrative Services, pursuant to his statutory duties, to act for and on behalf of the University in developing the necessary legal instruments to provide for this easement.

Upon motion of Mrs. Bowser, seconded by Mr. Teaford, the Board of Trustees adopted the foregoing resolution by unanimous roll call vote.

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EASEMENT
OHIO POWER COMPANY

Resolution No. 88-69

Synopsis: Renewal of power pole anchor easement to the Ohio Power Company is requested.

WHEREAS in 1972 the University granted to the Ohio Power Company a 15-year easement along County Club Drive in the vicinity of the Newark Regional Campus for the purpose of maintaining an electrical power pole anchor on the Newark Regional Campus; and

December 3 and 4, 1987 meeting, Board of Trustees

**EASEMENT
OHIO POWER COMPANY (contd)**

WHEREAS this easement has expired and the Ohio Power Company has requested a renewal of the easement for a period of 15 years; and

WHEREAS this easement will serve only private properties and the University will receive a fee of \$500.00 for this easement; and

WHEREAS the appropriate University offices have recommended that this easement be renewed:

NOW THEREFORE

BE IT RESOLVED, That the President and/or Vice President for Business and Administration be authorized to request the Deputy Director of Public Works of the Department of Administrative Services, pursuant to his statutory duties, to act for and on behalf of the University in developing the necessary legal instruments to provide for this easement.

Upon motion of Mr. Teaford, seconded by Mr. Wolf, the Board of Trustees adopted the foregoing resolution by unanimous roll call vote.

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**IMPROVEMENTS IN HOSPITALIZATION, SURGICAL-MEDICAL, MAJOR
MEDICAL, UNIVERSITY ALTERNATIVE HEALTH PROGRAM, AND
DENTAL PROGRAM BENEFITS**

Resolution No. 88-70

Synopsis: Improvements in the hospitalization, surgical-medical, major medical, university alternative health program, and dental program benefits are proposed.

WHEREAS the Board of Trustees in previous resolutions has awarded the coverage and subsequent improvements of the hospitalization program to Blue Cross of Central Ohio, surgical-medical and major medical programs to the John Hancock Mutual Life Insurance Company, dental program to Community Mutual Insurance Company and the University Alternative Health Program reinsured by the John Hancock Mutual Life Insurance Company; and

WHEREAS the Faculty Compensation and Benefits Committee along with other appropriate University offices has made a comparative analysis of the programs' components, and based on this review has recommended improvements to these programs:

NOW THEREFORE

BE IT RESOLVED, That the major medical maximum per person life time benefit be increased from the present \$250,000 to \$500,000. This new \$500,000 maximum major medical benefit would continue to be renewable at the rate of \$10,000 per year, with an estimated annual cost to the University of \$10,000; that the pregnancy coverage for faculty/staff and spouses be extended to include dependent daughters, with an estimated annual cost to the University: Blue Cross \$26,000, John Hancock \$23,000, and UAHP \$49,000 since UAHP provides hospitalization, surgical-medical

December 3 and 4, 1987 meeting, Board of Trustees

**IMPROVEMENTS IN HOSPITALIZATION, SURGICAL-MEDICAL, MAJOR
MEDICAL, UNIVERSITY ALTERNATIVE HEALTH PROGRAM, AND
DENTAL PROGRAM BENEFITS (contd)**

and major medical coverages; and that the dental program benefits be improved as follows:

	<u>Present</u>	<u>New</u>
Maximum annual benefit for preventive and restorative services	\$750	\$1,000
Maximum lifetime benefit for orthodontic services for dependent children under the age of 19	\$500	\$1,000

The estimated annual cost of the increase in the annual benefit is \$63,364 and for the orthodontic improvement \$36,012; the faculty/staff will pay one-half of the additional premium for their dependents; and

BE IT FURTHER RESOLVED, That effective January 1, 1988, the above benefit improvements be implemented under the above group programs.

Upon motion of Mr. Immke, seconded by Mr. Barone, the Board of Trustees adopted the foregoing resolution by unanimous roll call vote.

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**SALE OF TRANSPORTATION RESEARCH CENTER OF OHIO TO
HONDA OF AMERICA MANUFACTURING, INC.**

Resolution No. 88-71

Synopsis: Authorization is requested to execute the necessary legal documents to transfer property owned by the University at the Transportation Research Center of Ohio and to complete the sale of the Transportation Research Center to Honda of America Manufacturing, Inc.

WHEREAS the University has a legal interest in some of the land on which the Transportation Research Center of Ohio is located; and

WHEREAS the Transportation Research Center of Ohio is to be sold to the Honda of America Manufacturing, Inc.; and

WHEREAS it is necessary for the University to execute documents, including, but not limited to, execution of deeds of its property at the Transportation Research Center for the completion of this transaction; and

WHEREAS the appropriate University officers have recommended that the University participate in the sale of the Transportation Research Center to Honda of America Manufacturing, Inc.:

NOW THEREFORE

December 3 and 4, 1987 meeting, Board of Trustees

**SALE OF TRANSPORTATION RESEARCH CENTER OF OHIO TO
HONDA OF AMERICA MANUFACTURING, INC.**

BE IT RESOLVED, That the President and/or Vice President for Business and Administration, on behalf of the Board of Trustees, be authorized to execute any and all necessary legal documents, including, but not limited to, the execution of deeds of University property at the Transportation Research Center, to complete the sale of the Transportation Research Center of Ohio to Honda of America Manufacturing, Inc., on terms and conditions that they determine to be in the best interest of the University.

Upon motion of Mr. Immke, seconded by Mrs. Bowser, the Board of Trustees adopted the foregoing resolution by unanimous roll call vote.

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**LEASE OF LAND
TO THE OHIO BUILDING AUTHORITY**

Resolution No. 88-72

Synopsis: Lease of approximately 15 acres of University land south of Lane Avenue between North Star and Carmack Roads, Columbus, Ohio, to the Ohio Building Authority for the financing and construction of a State data center is proposed.

WHEREAS the State of Ohio Department of Administrative Services, Division of Computer and Information System Services (DAS), proposes to construct a new facility to house the State's administrative computing and communications operations and is interested in locating this facility on the campus of The Ohio State University; and

WHEREAS the University has approximately 15 acres of undeveloped land between North Star and Carmack Roads, south of Lane Avenue, in Columbus, Ohio, which land could be made available for this purpose; and

WHEREAS the Ohio Building Authority proposes to finance the construction of the facilities and improvements; and

WHEREAS location of this State data center on the University's campus could be mutually beneficial to the University and DAS and the appropriate University offices have determined that the lease of this land to the Ohio Building Authority for this purpose is in the best interest of the University:

NOW THEREFORE

BE IT RESOLVED, That the President and/or Vice President for Business and Administration be authorized, on behalf of the Board, to negotiate, and enter into, a lease of approximately 15 acres south of Lane Avenue between North Star and Carmack Roads to the Ohio Building Authority for the purpose of providing a site for a new State data center, at an appropriate market rental rate, with University approval of the facility's site and design plans and upon such other terms and conditions as are deemed to be in the best interest of the University and to develop and execute the necessary legal instruments for this lease.

December 3 and 4, 1987 meeting, Board of Trustees

**LEASE OF LAND
TO THE OHIO BUILDING AUTHORITY (contd)**

Mr. Jackson:

I think there are two people who would like to address the Board regarding this lease. Mr. Richard King, who is the City Manager of Upper Arlington, has asked to say a word or two. Richard, if you would like to come forward to the table and microphone, we would appreciate it.

Mr. Richard King:

Chairman Redman, Ladies and Gentlemen of the Board, and President Jennings, since August 1987, I and many members of my staff have been involved with University officials, State officials, and City residents in the College View subdivision of Upper Arlington, to determine and then assess the impact of the State Data Center proposed for OSU land on the east side of North Star Road, just south of Lane Avenue. In the beginning of this effort, because good information for any of the parties was unavailable or incomplete, the perceived enormity of the project, fueled by significant rumors and what I will call intrigue, was viewed as a potentially serious encroachment on the quality of the residential environment to the west. Despite the attempts by OSU representatives to ease concerns through public discussions of draft development standards, Upper Arlington residents were justifiably frightened and prone to believe the worst. The issue was further complicated in these early stages as the two parties, The Ohio State University and the City of Upper Arlington -- two parties that had really never worked together at the highest levels of their respective organizations on such a major problem -- needed to reconcile broader topics of style, philosophy, and approach. These early rough waters were successfully negotiated and established a basis for where we are today, which is an area of information sharing, joint problem solving and increasing levels of acceptance. Today, I tell you that the City administration is comfortable with the terms of the proposed lease as they relate to site access, building set back, and building height. We view them as an acceptable package forming the basis for minimal impact on the residential neighborhood; however, that basis we're confident will be enhanced by completion of the site development parameters generally referenced in the lease documents that you have, a process to which the City has been invited to make a contribution. We are grateful for that opportunity and will respond with our best efforts. We are confident about our contributing to the content of the site development parameters and we will do so cognizant they have a strong draft effort now already responsive to elements of neighborhood concerns.

In summary, the City is pleased with the evolution of the relationship with the University, with the substance of standards produced by that relationship, and with the opportunity for further input. I appreciate this opportunity to speak to you this morning and will be glad to respond to any questions or inquiries that you have.

December 3 and 4, 1987 meeting, Board of Trustees

LEASE OF LAND
TO THE OHIO BUILDING AUTHORITY (contd)

Mr. Barone:

Are there any questions?

Mr. Redman:

I just want to say to, Mr. King, that I am an old resident of that area. I built a house at the corner of Berkshire and Beaumont in 1941. I lived there ten years and know lots of folks in that area. I received perhaps fifteen to twenty letters from residents presently there and I appreciated their concerns. I responded to all the letters that I received, assuring the residents that Ohio State was interested in being a good neighbor. I think that most of the folks were properly concerned about what was going to be built next to their houses and I assured them that we would give every consideration to that, short of denying the University the right to use its own land. Most folks agreed that that was appropriate and I think it is a good solution, that Mr. Jackson has outlined, to the entire problem. However, I must say that I agree with you about a continuing dialogue between the University and the City of Upper Arlington and in any other matters that may come between us. So, I just wanted to give you that assurance, Mr. King.

Mr. King:

Thank you.

Mr. Teaford:

I think, too, Mr. Chairman, the Board appreciates your coming and reporting to us when something happens favorably, as well. I think that is very comforting.

Mr. King:

I know that feeling, as well.

Mr. Barone:

We want to thank you, Mr. King, for your presentation and especially since you completed the presentation smiling.

Mr. Jackson:

Thank you, Richard.

Mr. Barone:

At this time, we also have Dr. Medard Lutmerding --

Dr. Medard Lutmerding:

Mr. Redman, Ladies and Gentlemen of the Board of Trustees, and President Jennings, The Ohio State University shares three of

December 3 and 4, 1987 meeting, Board of Trustees

**LEASE OF LAND
TO THE OHIO BUILDING AUTHORITY (contd)**

Dr. Lutmerding: (contd)

its borders with the City of Columbus and one with Upper Arlington. I represent the neighbors living along the Upper Arlington border. As neighbors, we were very concerned about the plan to lease part of the farmland on North Star Road to the State of Ohio for a State Computer Center.

Naturally, we hate to see the loss of open space along the North Star corridor, with its unobstructed panoramic view of the Olentangy River Valley and the City.

For several months, despite our efforts, The Ohio State University did not welcome our efforts to affect the development nor understand our concerns. Only recently has The Ohio State University administration been working closely with the City Manager of Upper Arlington, and through him, the Citizens Committee.

What is on your agenda today gives us modest hope that the development, when it comes, will not destroy the character and quality of our neighborhood which we think is an enormous asset to the University. We feel that the University has a unique opportunity to develop a showcase research park. Any new development should have a campus environment equal at least to the Oval. It should also reflect a design quality that recognizes the scale and residential character of the neighborhood. Please remember that the City of Upper Arlington is the western gateway to The Ohio State University. This quality residential neighborhood on the immediate border of the future research park will make it more attractive to future tenants and more valuable to Ohio State.

We are aware that the lease document contains three standards concerning development:

1. No access from North Star Road
2. A building height limitation of 50 feet
3. A setback of not less than 150 feet

We are also told that Ohio State University administrators will subsequently execute a document clarifying and embellishing these standards. These clarifications and embellishments will be of utmost importance to our acceptance of the development. If these additional promises are fulfilled, we feel that we can accept the development with regret, but with some comfort.

There are still certain reservations, including:

1. Noise levels
2. Lighting intensity
3. Landscaping
4. Development quality

December 3 and 4, 1987 meeting, Board of Trustees

**LEASE OF LAND
TO THE OHIO BUILDING AUTHORITY (contd)**

Dr. Lutmerding: (contd)

Additionally, we still intend to explore the possibility of increasing the current setback if possible, by working directly with the State Architect's Office. We view the 150 foot dimension as minimally acceptable.

We feel that we have set an example of responsible restraint. We fully realize that this property does not belong to those of us living along its edge.

We do hope that the recent display of cooperation with the City of Upper Arlington will continue. Much can be accomplished for both sides with meaningful dialogue and an open exchange of ideas.

The community, as a whole, is looking at this project as a precedent to how future development of the corridor will progress. If this project is done properly, the University can count on the support and cooperation of the citizens of Upper Arlington. Thank you.

Mr. Barone:

Thank you, Dr. Lutmerding. Does any one want to ask Dr. Lutmerding any questions?

Mr. Teaford:

I would just like to add that I certainly agree that the neighborhood committee has indeed acted very responsibly on this and I think that has had much to do with getting a successful resolution. We do appreciate it.

Mr. Barone:

Mr. Jackson, will you confirm Dr. Lutmerding's statement in his report?

Mr. Jackson:

Yes. I appreciate your comments and I think in the early days of communication there wasn't anything to communicate. I know some people are not quite sure they believe that, but there wasn't very much to communicate. I think that the communication has improved and we look forward to continuing to work with you. I guess I would like to point out that in light of your one comment about the land utilization, as we see this project at this point, and we don't know any more about it than you do really, but it looks like the land utilization is somewhere in the neighborhood of about 35%. Which for a fifteen acre sight is relatively small, but that doesn't mean anything if it isn't done right. And we would agree with you on that. So, we are looking forward to the development of this project and we will continue to work through Richard, to you, and appreciate your

December 3 and 4, 1987 meeting, Board of Trustees

**LEASE OF LAND
TO THE OHIO BUILDING AUTHORITY (contd)**

Mr. Jackson: (contd)

comments and your coming here today. Thank you. Mr. Chairman, we would ask for your approval of this resolution.

Mr. Redman:

I would like to make one comment, Mr. Jackson. In the resolution itself, I don't see any reference to the \$1,800,000, that you mentioned we are to receive.

Mr. Jackson:

Mr. Chairman, I think, back under Tab 6 you will find, under the additional information, it talks about the \$1,800,000.

Mr. Redman:

So, am I to understand that that now has been determined?

Mr. Jackson:

Yes, that is correct.

Mr. Redman:

Then you are satisfied that we are going to receive that. Thank you.

Upon motion of Mr. Immke, seconded by Mr. Berry, the Board of Trustees adopted the foregoing resolution by unanimous roll call vote.

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Mr. Barone:

Mr. Chairman, at this time I would like to call on Mr. Ihrig to speak on the Cost Containment Program.

Mr. Ihrig:

Thank you, Mr. Barone. The 1987-88 budget approved in July included \$12 million in targeted annual savings to be generated by the University's inaugural cost containment program. Today we are able to report to you that the efforts of the University Faculty and Staff resulted in cost reductions that will generate annual savings totalling \$12,541,166, which is 5% over goal, as shown in the chart under Tab 7. For these efforts, eligible faculty and staff at Ohio State are being recommended to receive one-time bonuses which range from \$439 to \$575 as shown on the second chart under Tab 7. Based upon the recommendation of the Faculty Compensation and Benefits Committee, the individual faculty bonuses will be returned to their departments for use as discretionary enrichment funds. Deans and members of the President's Staff are excluded from receiving bonuses.

December 3 and 4, 1987 meeting, Board of Trustees

Mr. Ihrig: (contd)

The process, created last winter, began with the setting of targets and providing the call for cost containment proposals from all colleges and offices, including earnings units. The only areas excluded were restricted operations in which external agencies defined the use of the funds, such as sponsored research projects as well as gift and endowment income accounts. Also, employees under collective bargaining agreements were not included since the program was not a part of their agreement.

We began the program with a great deal of communication throughout the University that included: a brochure; On Campus articles; articles in the Lantern; group meetings throughout the University with slide presentations; meetings with the various Senate Committees including the Fiscal Committee, Senate Steering Committee, the Faculty Compensation and Benefits Committee; as well as the Staff Advisory Committee.

Many colleges and offices have established their own internal cost containment committees; used their own publication activities to promote the program and to solicit suggestions; and held many meetings throughout the University. In August we received 540 individual proposals from the colleges and offices which totalled over \$13 million. At that time four-person review teams were created from volunteer faculty, staff and students of the University and 136 individuals participated in these review teams. The teams were to review each of the cost containment proposals in areas other than their own and to look at the criteria for judging the cost containment proposals: true annual cost savings to the University, in that the cost savings would continue on a regular basis; that they were not passing costs on to other parts of the University, in other words the costs were a net reduction to the entire University; and quality must be maintained or enhanced.

In the final review of results of these activities and these proposals that were done throughout October and November -- while about a half a million dollars worth of proposals did not pass the scrutiny, the net amount of the \$12.5 million did pass and have been approved. And they are in the process now of making the internal budget adjustments between the various units and developing the cash balances.

It is important to note that the purpose of Cost Containment is not only to create internally generated resources by reducing annual operating costs while enhancing quality, it is also directed at opening the decision-making processes throughout the University to involve all faculty and staff. Prior reallocation programs are top-down driven, with the few hundred managers making the decisions where to cut. The intent of Cost Containment is to involve the thousands of faculty and staff to question not only whether we are doing things right, but more importantly, are we doing the right things. Thousands of intelligent people motivated to become more involved in finding ways to improve instruction, research and support services,

December 3 and 4, 1987 meeting, Board of Trustees

Mr. Ihrig: (contd)

while cutting costs, are much more effective than a few hundred directing the efforts.

This is not to say that our faculty and staff haven't been working to maintain a cost-effective University -- Ohio State's faculty and staff have always been extremely cost conscious. This program is to challenge each of us to extend our efforts to do even more by going beyond making operations efficient, to finding better, more cost effective ways to enhance teaching, research and support services.

The first year results have been more than successful in generating the targeted annual savings; however, we have been less than successful in effectively communicating with our associates throughout the University the intent and purpose of this new Program. Therefore, we are now talking with department chairs and members of various committees to receive their ideas for improving the 1988 cost containment programs. The feedback is spirited and healthy -- and is providing us with good insights regarding areas for improvement. When the bonus checks, along with letters, are distributed explaining the program to eligible faculty and staff in mid-December we hope to gain even more interest on the part of all the faculty and staff in how to improve this program as we look forward to establishing this for the next year. I would be glad to respond to any questions about the program and we are recommending it for your approval.

Mr. Teasford:

Mr. Chairman, too, I think that everyone should realize that the administration does understand that more communication on this subject is still necessary. And I think the other thing that everybody needs to know is that contrary to what Secretary Bennett says, this University is remarkably good at not wasting money. This is just one more effort to improve on an already good situation.

Mr. Berry:

Other than that how much -- assuming the goals are met and everything, what dollars are we talking about in bonuses?

Mr. Ihrig:

The bonus amount will be just over \$5.3 million. The final exact number is still being worked on, but it is between \$5.3 and \$5.4 million.

Mr. Berry:

So what you are saying is, we achieved \$12.5 million and we pay back \$5.3 million.

Mr. Ihrig:

That is correct.

December 3 and 4, 1987 meeting, Board of Trustees

Mr. Berry:

So we saved a net of \$7 million.

Mr. Ihrig:

For this year. But the \$12.5 million is recurring continuing savings, where the bonus is a one-time savings this year.

Mr. Berry:

All right.

Mr. Teaford:

Also, it is important to notice that the professional staff is not taking the bonuses. The faculty are having those bonuses go to their departments.

President Jennings:

Yes. The faculty -- that was on the recommendation of the Faculty Compensation and Benefits Committee. They felt it would be more appropriate to return the equivalent bonus money to the department for the betterment of the individual department, rather than to the individual faculty member.

Mrs. Bowser:

Mr. Ihrig, did I hear you say that next year's program is in the process of being discussed.

Mr. Ihrig:

That is correct. Through all of these open discussions we have had letters from individuals which we are responding to, and we have a lot of good ideas which we are evaluating at this time to make a full set of recommendations for next year.

Mrs. Bowser:

So you are taking all of the communication efforts that you can in order to --

Mr. Ihrig:

Yes. This is a learning process for all of us. It has not been done in higher education and it has very seldom been done even in many service industries. So we are plowing new ground and our associates from around the country are watching us very carefully, especially the private schools, they are very interested in what we are doing.

Mr. Barone:

Do you have additional pamphlets on this program? Can anyone

December 3 and 4, 1987 meeting, Board of Trustees

Mr. Barone: (contd)

have them? I think they are self-explanatory and very helpful. If anyone desires one, they can obtain one from you?

Mr. Ihrig:

Yes, that's correct.

Mr. Barone:

Any further discussion? Thank you, Mr. Ihrig.

COST CONTAINMENT PROGRAM

Resolution No. 88-73

Synopsis: Ratification of the University's 1987 "Cost Containment" program and bonus is proposed.

WHEREAS the President has proposed and implemented a Cost Containment program for 1987 which sought to reduce annual operating costs by \$12 million; and

WHEREAS this new program was designed to enhance the University's continuing efforts to more efficiently utilize institutional resources in the face of stabilized revenue sources; and

WHEREAS a one time faculty and staff incentive was built into the first year cost savings in the form of a bonus for employees if departmental/unit and University goals are met for those eligible faculty and staff on the University's payroll on or before January 1, 1987 and through October 25, 1987 for those individuals paid bi-weekly, or through October 31, 1987 for those individuals paid monthly; and

WHEREAS the 1987 Cost Containment review has been completed which establishes this year's savings as \$12,541,166, a figure in excess of the target; and

WHEREAS the University is now prepared to pay faculty and staff bonuses in amounts calculated according to the formula established in the 1987 Cost Containment program:

NOW THEREFORE

BE IT RESOLVED, That the University, having met its institutional goal of 1987 cost savings, pay to all eligible employees, consistent with the plan set forth in the 1987 Cost Containment program, a one time bonus in recognition of their efforts in achieving effective annual operating savings for the University; and

BE IT FURTHER RESOLVED, That, as recommended by the Faculty Compensation and Benefits Committee, faculty bonus shares be returned to the individual's department, school or division as discretionary enrichment funds.

December 3 and 4, 1987 meeting, Board of Trustees

COST CONTAINMENT PROGRAM (contd)

Upon motion of Mr. Teaford, seconded by Mr. Immke, the Board of Trustees adopted the foregoing resolution by unanimous roll call vote.

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President Jennings:

Mr. Chairman, I would like to call on Mr. Thompson to make a final recommendation of the Committee.

Mr. Thompson:

Yes, it was recommended this morning that there be ratification of the settlement agreement and execution of this settlement between Earle D. Bruce and The Ohio State University and President Edward H. Jennings. That is recommended for your approval.

SETTLEMENT OF LAWSUIT

Resolution No. 88-74

WHEREAS upon November 20, 1987, a suit was filed in Franklin County Common Pleas Court by Earle D. Bruce against The Ohio State University and Edward H. Jennings, President, known as case number 87CV-11-7430; and

WHEREAS a settlement agreement was entered into and executed on November 27, 1987, between Earle D. Bruce and The Ohio State University and Edward H. Jennings, President; and

WHEREAS the Board of Trustees of The Ohio State University are in agreement that settlement of this lawsuit is in the best interest of the University:

NOW THEREFORE

BE IT RESOLVED, That the Board of Trustees of The Ohio State University hereby affirm and ratify the settlement agreement between Earle D. Bruce and The Ohio State University and Edward H. Jennings, President, and the execution of that agreement.

Upon motion of Mr. Teaford, seconded by Mr. Berry, the Board of Trustees adopted the foregoing resolution by unanimous roll call vote.

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REPORT - UNIVERSITY'S INVESTMENT PORTFOLIO

Resolution No. 88-75

RESOLVED, That the report on the University's Investment Portfolio, dated November 20, 1987, as submitted to the Fiscal Affairs Committee of the Board of Trustees, be received and filed with the official records of the Board.

December 3 and 4, 1987 meeting, Board of Trustees

Thereupon the Board adjourned to meet Thursday, February 4, 1988, at The Ohio State University Fawcett Center for Tomorrow, Columbus, Ohio, at 6:30 p.m.

Attest:

Madison H. Scott
Secretary

Edmund C. Redman
Chairman

THE OHIO STATE UNIVERSITY
OFFICIAL PROCEEDINGS OF THE
ONE THOUSAND TWO HUNDRED AND THIRTY-SEVENTH MEETING
OF THE BOARD OF TRUSTEES

Columbus, Ohio, January 4, 1988

Pursuant to paragraph (B) of bylaw 3335-1-01 of The Administrative Code of The Ohio State University, the Board met upon the call of the Chairman, Edmund C. Redman, in a special meeting on Monday, January 4, 1988, at 5:40 p.m., The Ohio State University Fawcett Center for Tomorrow, Columbus, Ohio.

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January 4, 1988 meeting, Board of Trustees

The Chairman, Mr. Redman, called the special meeting of the Board of Trustees to order on January 4, 1988, at 5:40 p.m. He requested the Secretary to call the roll.

Present: Edmund C. Redman, Chairman, Leonard J. Immke, Shirley D. Bowser, Hamilton J. Teaford, and John J. Barone.

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PERSONNEL ACTION

Resolution No. 88-76 .

Synopsis: Ratification of an employment contract is proposed for John Cooper as Head Football Coach for the Men's Varsity Football Team.

WHEREAS the University has undertaken efforts to identify candidates for the vacant position of Men's Varsity Football Head Coach; and

WHEREAS these efforts have resulted in the interviewing of several highly qualified individuals and the selection of one; and

WHEREAS John Cooper has been chosen by the University administration as the best qualified candidate for this position; and

WHEREAS John Cooper and the University have entered into an agreement which establishes the employment relationship between the parties; and

WHEREAS the Board of Trustees has reviewed the selection of John Cooper and the agreement:

NOW THEREFORE

BE IT RESOLVED, That John Cooper be appointed as Head Coach of the Men's Varsity Football Team, effective January 4, 1988, in accordance with the terms of the December 31, 1987 agreement between John Cooper and The Ohio State University, and that this action be recorded in the Personnel Budget Records of the University.

Mr. Redman made the following statement:

As I mentioned in my statement at the end of last year, the Board of Trustees and the University are very pleased with the selection of John Cooper as Head Coach for the Men's Varsity Football Team. With today's action by this Board, John Cooper has now been officially appointed as our new Head Coach. Parenthetically, I would like to note here that all Members of the Board concur in this action, including those not present for today's meeting.

Coach Cooper is a welcome addition to the football team, the Department of Athletics, the institution and, most importantly, the University community. We are indeed pleased to have the Cooper family -- John, Helen, John Jr., and Cindy join us in Columbus. Coach Cooper has distinguished himself as an individual of great leadership, human insight and integrity. We

January 4, 1988 meeting, Board of Trustees

PERSONNEL ACTION (contd)

Mr. Redman: (contd)

look forward to Coach Cooper's contribution to The Ohio State University and welcome him to the institution.

Upon motion of Mr. Immke, seconded by Mr. Teaford, the Board of Trustees adopted the foregoing resolution by unanimous roll call vote.

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Thereupon the Board adjourned to meet Thursday, February 4, 1988, at The Ohio State University Fawcett Center for Tomorrow, Columbus, Ohio, at 6:30 p.m.

Attest:

Madison H. Scott
Secretary

Edmund C. Redman
Chairman

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THE OHIO STATE UNIVERSITY
OFFICIAL PROCEEDINGS OF THE
ONE THOUSAND TWO HUNDRED AND THIRTY-EIGHTH MEETING
OF THE BOARD OF TRUSTEES

Columbus, Ohio, February 4 and 5, 1988

The Board of Trustees met at its regular monthly meeting on Thursday, February 4, and Friday, February 5, 1988, at The Ohio State University Fawcett Center for Tomorrow, Columbus, Ohio, pursuant to adjournment.

* * *
Minutes of the last meeting were approved.

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February 4 and 5, 1988 meeting, Board of Trustees

The Chairman, Mr. Redman, called the meeting of the Board of Trustees to order on February 4, 1988, at 6:43 p.m. He requested the Secretary to call the roll. The meeting recessed into Executive Session for the purpose of considering legal issues and personnel-related matters.

Present: Edmund C. Redman, Chairman, Leonard J. Immke, John W. Berry, Shirley D. Bowser, Hamilton J. Teaford, John J. Barone, Deborah E. Casto, John W. Kessler, and Milton A. Wolf.

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The Vice Chairman, Mr. Immke, reconvened the meeting on February 5, 1988, at 10:35 a.m.

Present: Leonard J. Immke, Vice Chairman, Shirley D. Bowser, Hamilton J. Teaford, John J. Barone, and Deborah E. Casto.

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Mr. Immke:

I call upon Dr. Lena Bailey to give her report.

Dr. Lena Bailey

I'm Lena Bailey, Dean of the College of Home Economics, and we are delighted to be invited to share with you information about our hospitality program. This program is one of our newest undergraduate programs -- it has been in place about 3 1/2 years as it is currently implemented. It is one of about 19 or 20 undergraduate options in our College. It is quickly coming to the forefront as one of the most popular undergraduate programs in the College.

I have with me today the Chair of the Department where this program is housed, Dr. Wayne Johnson, on my right, and on my left is Mr. Frank Pauze, who is Director of the Hospitality Management Program. Along with our comments today, we have a few slides we want to share with you and those slides will expand a bit upon the information that was provided to you earlier that dealt with the curriculum and its history, as well as some of our hopes regarding the program for the future. I would like for Wayne to comment a moment or two before Frank shares with you the information we've planned.

Dr. Wayne Johnson:

Thank you, Dr. Bailey. I would just like to make a few comments about the Department of Human Nutrition and Food Management. We have had a very long history and a long tradition of excellence in academic programming in the Department. Particularly in those various fields of dietetics and human nutrition, both at the undergraduate and graduate level. The restaurant management program, as you will hear later, was initiated back in 1946, but in the early '80's a move was made to broaden the restaurant management program and to add a degree in hotel administration.

When I came here in 1983, one of the real challenges that I saw

February 4 and 5, 1988 meeting, Board of Trustees

Dr. Johnson: (contd)

was the opportunity to be able to step in and help to direct the beginnings of the new program. Of course, we wanted to get one of the very best people we could find who had the experience, the educational background, the drive and energy to be able to come in and help us put this program together. We anticipate and we are working toward making it one of the very top in the country. We were fortunate in 1984, to be able to hire Frank Pauze. In my way of thinking, he has done a job for us that very few other people could have done. So, Frank will be telling you the specifics of the program, where we were, where we are now, and where we hope to be in the future. Frank --

Mr. Pauze:

Well, again, that you very much for letting us come here today. We're happy to be in a University that is committed to excellence, that is dedicated to the pursuit of quality. There is no doubt about that -- otherwise I wouldn't be here.

(Start of Slide Presentation)

In terms of where we are housed, we are happy to be housed in the College of Home Economics, another quality oriented part of this University. In terms of ratings, we are proud to say that through Dean Bailey's administration, the College has gone from eighth place in the country, to approximately fifth in 1983. In terms of the hospitality education programs, whether they are called hotel/restaurant programs or hotel/restaurant institution programs, etc., the most recent poll shows Cornell and Michigan State the leaders. They have been the leaders and they have been in the business for about fifty years. We have a way to go to catch up. OSU, quite frankly, was not even on the list back in 1984-85. Another poll will be coming out this year and I hope we make that. You can see that the other land-grant institutions are the ones that are leading the pack.

In terms of the tri-state area, our competition in Ohio rests with Bowling Green and their active and creative program up there; Purdue, that you have probably heard about; and Michigan State. Those are the three programs that are in the tri-state area that really rival us in terms of competition.

As Wayne mentioned, the program was founded in 1945 by a gentleman by the name of Herb Gill, who was a student at the time, along with three of his roommates. They decided that they wanted to get into the restaurant industry, went to the Provost at the time and said let's start a program. In 1982, Dean Bailey headed a task force that looked at the restaurant degree program and redesigned the curriculum and it is the basis of the curriculum that we have today. In 1984-85, this curriculum was implemented with approximately 50 students. We are proud to say that over the three years we have grown quite significantly, we have more than 270 students in the program right now.

The degree is a tagged degree. The piece of paper actually says a Bachelor of Science in Hospitality Management. Some of the

February 4 and 5, 1988 meeting, Board of Trustees

Mr. Pauze: (contd)

students are proud of that because it does not say Home Economics, it doesn't make a difference to us. The majors that they are enrolled in are hotel administration or restaurant management, one of those two options.

We are proud that we have this kind of broad curriculum strength -- by the way, we do know how to spell business, that is not a slander against the College of Business by any means. We have a broad liberal arts base, in the BER area and the undergraduate curriculum, and we support Provost Brand's efforts to broaden that and strengthen that liberal arts base. About 25-30% of our curriculum is in the College of Business, laying the foundation for some of our course work back in Home Economics later on. We have a definite human resource emphasis in the program and one of the corner stones, which we will tell you about in a minute, is the internship program. The bottom line to all of this, though, is that we are really human resource oriented. If you know anything about the hotel and restaurant field, it is a people business. You must meet the numbers, but you also have to be very willing and able to deal with people. And we also, throughout the curriculum, structure analysis and critical thinking skills throughout every single course so that our students are pressed to form analyses and form opinions. We really push them on thinking. So this is not a vocational program by any stretch of the imagination, it is a management program.

Most programs in the country are either housed in what we call a focused area, in a culinary side, focusing on food service or whatever. Other programs, particularly the leaders, are broad based, management oriented, and that is where we tend to envision ourselves -- on the management side.

The enrollment patterns over the last couple of years are a double-edged sword. We are getting increased enrollment with very little advertising, in fact no advertising, word of mouth is spreading. Last quarter we graduated eight students and brought in fifty-three. We have that kind of pattern continuing. Regression analysis on that line, the solid line, would show us capping out at our target of 450 to 500 students in two years. Naturally, with an immature program like this that is growing rapidly, the lag period between faculty resources and the enrollment stats is significant. So what we intend to do is somehow over the next couple of years slow down that enrollment a little bit, so that our lag time between faculty resources and student enrollment can catch up. We would envision that our target enrollment for undergraduates would be 450-500. At that point we would want the full-time equivalency of 12 faculty members and three staff support people.

We are proud to say that over the last couple of years while the enrollment has been doubling and quadrupling, our grade-point average overall has gone up from a 2.2 to a 2.6. So while we are bringing in the students, we are bringing in good quality top-notch students. Four years ago we had one student on the dean's list of 73. Last autumn quarter the dean's list had 69

February 4 and 5, 1988 meeting, Board of Trustees

Mr. Pauze: (contd)

names on it, 16 of which were hospitality management majors.

The real cornerstone of this program lies in what we call progressive management development. Other schools call it internships, work experience, co-ops, practicums, whatever. We do not want to give credits just for going out in the industry and working. Eighty-five percent of our students work 20-30 hours per week in the field while going to school full-time. We don't want to give credits for that. We have developed a three-level internship sequence, a management development sequence, that goes from 5 credits, to 10 credits, to 15 credits. It goes from an hourly position, to a supervisory position in the junior year, to an assistant manager, and then to an entry level career position in their senior years.

The entire internship sequence is based on competency, not hours. When I went to school at the University of New Hampshire in hotel administration, we were asked to put in 1200 hours -- we could have been a waiter for 1200 hours, come back with a letter from your employer, check it off, and get a transcript. We have a competency-based system here where there are certain check lists, certain analyses that have to be done by the students. They meet with a faculty member one-on-one for a half-hour each week for a debriefing as they go through this rotation, and we have check lists and appraisals back from the industry as they go through. We push the critical analysis, the thinking skills throughout the program.

The internship sites when we started in 1984-85, we worked with 4 charter sites in Columbus. And I must say that we have also had requests from different properties in Columbus which we have turned down, based on management teams at the properties. We are not after bricks and mortar. The Hyatt's got a neat lobby, but I can promise you that if the Hyatt's management team wasn't up to par, we would not be working with the Hyatt. This year in 1987-88, we have approximately 250 majors. When this slide was made up, we were working with 12 sites; we now have 14 and we are putting out 47 students each quarter. As we get to 450 majors, we are going to require 90 students per quarter for approximately 24 sites. The industry saturation point at this time, although we have enough properties, we can target about 16 or 17 properties that we would want to work with. As a result, we have a deficit of about 28 students per quarter. If we had a facility that we could house ourselves in, we would be able to handle those 28-30 students in-house. So we are approaching a crunch demand.

The job scene still looks good for grads. Almost every program in the country can tell you that they have 100% placement. That is very easy, because all the programs in the country combined only turn out about 10% of the industry need every single year. The recent poll by Central Michigan said students weren't interested in food service. And before the Board gets upset, if you notice the bottom one is Oklahoma State University, not OSU. In our program, about 70% of the students are in hotel administration, about 30% are in restaurant. In the lodging

February 4 and 5, 1988 meeting, Board of Trustees

Mr. Pauze: (contd)

industry you have rooms only and you have full-service food and beverage properties. Approximately 80% of our grads go into those full-service food and beverage hotels. And 90% of our restaurant grads go into the multi-unit, full-service restaurants. So the headline about students not being interested in the food service is clearly not indicative of our program.

In terms of the industry, I don't know if very many people know this, but the hospitality industry is 10% of the gross national product. Forty-five billion meals per year, almost 3 million room nights, seventy billion pounds of food, fifty-three million pieces of equipment, every single year. The industry employs approximately 6% of the entire population of the United States. So it is a wealth of industry.

We are lucky because Ohio is a hot bed for the hospitality industry. Columbus, as you know, has these corporate headquarters. We are developing a partnership with the industry and as a result we have a middle-management advisory board and a CEO advisory board. Once every six months President Jennings, Dean Bailey, Dr. Johnson, and myself, meet with these five people: Dan Evans from Bob Evans, Pat Ross from Rax, Bill Ingram from White Castle, Bill Denk - CEO of Red Roof, and Jim Pickett. So we are developing that partnership around the industry in terms of our advisory board. Columbus is also the regional headquarters for these kinds of companies and we have a high profile there. When we go to Ohio, there are 57 corporate headquarters from this industry in Ohio -- Dayton has NCR Corporation, the world leader in point of sale computer equipment in the hospitality industry. If we go to Troy, we have Hobart Corporation, again world leader in food service equipment. We go to Stouffers up in Cleveland, L. J. Minor, the list is endless. Proctor and Gamble is the major supplier of amenities packages for the hotels in this field.

In terms of research within this industry these are some of the things we have proposed and ongoing: right now we are developing a robotics food service automation program for some of the fast food companies; Dr. Marion Kramer is working on flexible pouch food storage so that we have a 100% vacuum proof container to store meats at room temperature for a six-month shelf life -- that will help out in terms of food service supply; we have a CEO leadership study going on with McDonalds; and Rax we have a program of looking at consumer dietary studies in the areas of fast foods. What are people eating after they have lunch at McDonalds? Can they counterbalance the Big Mac?

I would like to say that you will probably recognize the slogan for the campaign of "A Distinguished Past -- a Dynamic Future." Our part of the campaign calls for a chair for \$1.5 million. I am glad to say that this morning there is a company that has on its agenda at their board meeting this morning, as top priority, the funding of that chair. So we are very optimistic about the funding of that chair. We have a proposal out for \$50,000 for computer hardware; we already have a guarantee of software

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Mr. Pauze: (contd)

packages for about \$40,000, once we get the hardware. We have added \$6,000 a year to our scholarship for hospitality majors, of which 2 of those scholarships are targeted for minorities. Four thousand dollars a year comes in and is added to general support. This particular year we also had approved at the University-level a position for an intern coordinator. It was not funded until 1988-89, so Dr. Johnson went out and got \$7,000 from his internal funding; I hit the bricks and got about \$10,000 from some local companies to carry us through.

So, in general, with the wealth of industry, geography, the work ethic of the students, I guess our slogan is "Carpediem" -- seize the day, seize the opportunity, move forward with quality and excellence. Thank you.

Dr. Bailey:

That concludes our presentation, however we are willing to entertain any questions from you and give it our best.

Mr. Immke:

Any questions?

Mrs. Bowser:

When I came on the Board, Home Economics was a School. Now it is a full College with some very creative programs. I know Dean Bailey had a lot to do with that. I told the participants earlier, I think this is the kind of thing about Ohio State that makes me very proud. We have come a long way in this area, it is an area that there is a demand for, and it is well organized. I appreciated having the materials before the Board Meeting, which doesn't always happen as far as the presenters are concerned. I think it is a fabulous program.

Mr. Immke:

I do, too.

Mr. Teaford:

Mr. Chairman, as you know this is a College which has become near and dear to my heart, since my wife is a graduate student in the College. But I think it is interesting to note, too, that this has historically had a reputation of being a woman's college. We have some evidence here and on our agenda is the appointment of Dr. Davis as the Chair in the department that my wife is in, in Family Relations and Human Development. I think that is also significant in that we will finally realize that this is a department that has a broad-base of interest and in the areas they cover.

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Mr. Immke:

Dr. Spillman --

Dr. Russell Spillman:

President and Members of the Board, I am pleased this morning to present you with another one of our very important student organizations. We have with us this morning representatives of the Residence Halls Advisory Council -- Todd Dailey who is the President and Gary Breakfield who is the Vice President. Todd is from Chillicothe, and he is a senior major in business information systems; Gary is from Sabina, a senior also, majoring in mathematics. They would like to tell you a bit about what is going on in residence halls. Todd, I will turn it over to you.

Mr. Todd Dailey:

Mr. Teaford, President Jennings, and Members of the Board, I would like to thank you today for giving us an opportunity to speak with you. I guess, first of all, Residence Halls Advisory Council is, for the amount of work that we do, a fairly little-known organization on campus. So, first of all, we would like to go through and let the members know just exactly what we are. Residence Halls Advisory Council was formed in 1981 as a subcommittee of the Council on Student Affairs. At that time, our purpose was to review and make recommendations to the Office of Residence and Dining Halls and to advise them on policies from a student perspective. Since then, we have gone on to become an independent student organization of our own and have kept our goal of representing the students' voice on campus. The Office of Residence and Dining Halls has been very supportive of that and they also recognize that our recommendations to them on residence halls policy are very important to them and they are very supportive of us in that respect.

Our voting members consist of the hall presidents of each independent residence hall student government. Also we have liaison officers which represent us to each office of residence and dining halls separate offices: the business office; the administration office; the residence life office; the food service office; and we also have a representative of their security committee. As such, we try best as we can to represent all the interests of residence hall students. This year our goals for 1987-88 school year, we set five goals at the beginning of the year: 1) to promote human awareness on campus; 2) to provide leadership training opportunities for hall council executives on campus; 3) to involve residence halls advisory council with other campus organizations; 4) to strengthen the relationship between residence halls advisory council and the area in hall governments on campus; and 5) to make a commitment to provide alternative programming as a result of the change in the legal drinking age on campus and the whole State. Certainly, these are fairly broad goals, but we think to an extent we can achieve all of these goals or at least make some good progress with these goals. And I believe that our group

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Mr. Dailey: (contd)

has done well this year, and I am very proud of all of our members with the amount of work that we have seen put in by them.

So with that I would like to turn over the floor to Mr. Breakfield and he is going to go over some of the specific accomplishments we have achieved this year.

Mr. Gary Breakfield:

Thus far this year we have made some progress toward these goals that Todd mentioned. I would like to go over just a few of the specific things on our agenda that we have accomplished this year.

First of all in the fall, during Alcohol Awareness Week, we sent a contract to each resident in our halls asking them for a commitment, to sign a contract which stated that they would not drink for the extent of Alcohol Awareness Week. I believe we made it about a five-day period. We hoped that students that did have a drinking problem that it might actually click with them when they attempted to stop for 4 or 5 days and found that they had some problems with it. Hopefully, they may actually go out and seek some help. That was our goal for the program.

We have also funded some different awareness type programs. One in particular, the Karen Thompson Program, was held the beginning of last November and concerned civil rights. Presently we are involved, as anybody that reads the Lantern would know, with the issue of condom sales in the residence halls and AIDS awareness education to the residence halls students. We are in the process of conducting a survey with the polymetrics lab to determine how the residents feel about the situation. We are also in an ongoing process of educating the students through different programming as to the different aspects of sexually transmitted diseases. We are in the process of trying to obtain a company to come on The Ohio State University Campus and rent lofts to students for the residence halls. We are trying to avoid the problem that evolve when students making their own. Sometimes they don't exactly follow the loft construction guidelines, and they can be unsafe and fire hazards. We have companies that are willing to come in with fire safe lofts and we are in the process right now of seeing if we can find a suitable arrangement with one of those companies.

We are working with the security policy with the residence and dining halls as to the security of the doors at night, the access in and out, and the traffic of the residence halls during different hours of the day. We are trying to make it as convenient as possible for the residents, as well as making the residence halls as secure as possible.

We are representing Ohio State -- over Halloween weekend we went to Syracuse and represented Ohio State residence halls at the North Atlantic Association of College University Residence Halls Convention. And I believe in April we will be going to the

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Mr. Breakfield: (contd)

University of Wisconsin-La Crosse for the national convention and representing Ohio State there.

We have not fulfilled all of the goals that we have set for ourselves thus far this year. Still on our agenda, we are going to attempt as much as possible to involve minority support groups in the Residence Halls Advisory Council. Groups such as the Black Association of North Campus Students, the Olentangy Association of Black Students -- I'm not sure of the name of the south area group for a black support, the Asian Support Group -- we are trying to involve them as much as we can and get them involved in RHAC so we can help them and they can help us in trying to work out what some call a racism problem here at Ohio State.

We also intend to restructure our constitution to better facilitate our goals. Our constitution was written in 1981 and with the involvement of our group it has been somewhat outdated. We are going to try and restructure it so that the constitution facilitates our needs and will allow us to direct our group toward the eventual goals that we have for the group. We are going to attempt to incorporate graduate residence halls and graduate living environments into the Residence Halls Advisory Council, such as Jones Tower and Morrison Tower, and now we have a new situation in Park Hall, where we have graduates and undergraduates living in the same building. We want to set down long-range goals for our group, not just until the end of Spring Quarter, but possibly goals that can be attained over the next 3-4 years. What could be done here on campus such as the -- there are endless possibilities of what could be done for the residence halls students through our organization.

That, right now, is where our group stands as far as the actual implementation of programming and procedures.

Mr. Immke:

Thank you. Any questions of either Todd or Gary?

President Jennings:

I think it might be enlightening for all of us if you would explain what a loft is.

Mr. Breakfield:

I'm the Chairperson of the Loft Committee. What it is, essentially, in some of the rooms -- right now the most feasible place to put them is in the south campus in the Olentangy doubles. The beds are on the floor, and what a loft would do is add a structure to place the bed on so it goes approximately 4 1/2 to 5 feet in the air and you can put a desk or a couch underneath there. As many can tell you, the residence halls rooms can be cramped at times. It is a way to allow more and better utilization of the space and make the residence halls rooms seem much larger and much more spacious.

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Mrs. Bowser:

You can actually build those in the rooms? I hate to walk in St. John's under the scoreboard, I would be --

President Jennings:

That is what their committee is all about, to perhaps put some regulations into the construction of these because they can get a little --

Mr. Breakfield:

The University has very strict guidelines as to exactly what materials need to be used in building lofts. That shuts off to most students the possibility of actually putting one in. So what we have done, is we have contacted some outside companies which would build them to specifications and rent them to students.

Mrs. Bowser:

I am surprised that some enterprising student hasn't gone into the loft construction business.

President Jennings:

Sure. Well that is probably what is going to happen is somebody -- when they go for bids to rent these. But it is basically a high bunk bed --

Mr. Immke:

Thank you both. Thank you, Dr. Spillman.

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Mr. Immke:

I would like to call on John Barone now for a Research Foundation Committee report.

Mr. Barone:

Mr. Chairman, on the Research Foundation I am happy to report that the Research Foundation grants and contracts for the months of November and December 1987 are shown in the Board agenda book. There are 160 awards listed which provide a gross income of \$13.7 million.

For the first six months of the fiscal year (July 1 to December 31) we received 602 awards with a gross income of \$54.1 million. This compares to the first six months of the last fiscal year, in which we had 512 awards with a gross income of \$45.6 million. This represents an 18.45% increase in funding for the six month period.

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Mr. Barone: (contd)

Approximately 70% of the funds received in December came from the federal government. These awards were spread among all of the usual federal agencies except for the Departments of Energy and Education. In the case of the Department of Education, we failed to receive the renewal award of more than \$5 million for the National Center for Research in Vocational Education. In spite of this loss, overall federal funding remains up by 5.05% for the first six months of this fiscal year. Increases were received in all other funding sectors for the month of December, however the rate of growth was less than that experienced in previous months.

Some highlights of awards for November and December are:

- * \$4.5 million award from the Department of Labor, Bureau of Labor Statistics, to Professor Randall J. Olsen of the Center for Human Resource Research to support a continuation of the National Longitudinal Surveys of Labor Market Experience. That is a little different from our President, when he said how much money was given for research in cranberry juice.
- * \$527,000 grant from the government of Indonesia to Professor James J. Buffer of the Department of Education Administration to provide professional development teacher education programs for the faculty of the Institutes for Teacher Training and Education in Indonesia.
- * \$500,000 award from the National Science Foundation to Professor P. E. Kolattukudy of the Biotechnology Programs to provide equipment for an integrated plant propagation facility.
- * \$365,653 award from the National Institutes of Health to Dean Manuel Tzagournis of Medicine Administration and Professor William B. Malarkey of the Department of Internal Medicine to support continuation of the General Clinical Research Center. (This is a partial funding; approximately \$1.0 million more is expected this fiscal year.)
- * \$252,424 contract from the National Institutes of Health to Professors Lawrence E. Mathes, Richard G. Olsen, and Melinda J. Tarr of the Department of Veterinary Pathobiology for continuation of work to develop animal models infected with retroviruses for testing of antiviral agents.

These, of course, are only a few of the awards received by University faculty members these past two months. I would strongly suggest that each of you consult the full listing provided for additional information which I have placed in the hands of Madison Scott. I would like to bring out along with that a little background information that was made. For example: \$4,498,900 was given to the National Longitudinal Surveys of the Labor Market. This work is performed and involves all the tasks necessary to complete the tenth round of the National Longitudinal Survey of Labor Market Experience for

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Mr. Barone: (contd)

the youth cohort. They will be preparing the data tape from the 1987 and 1988 surveys of young women and developing questionnaires for the 1989 survey for the mature women. Data tapes will also be prepared for the 1987 survey of the mature woman.

Along with that, I would like to bring out one other factor and that is along with the slides what we saw today, there has been a \$500,000 grant for the integrated plant propagation facilities in the Biotechnological Programs with Dr. P. E. Kolattukudy. The Ohio State University Biotechnological Center has chosen to build a center of excellence in plants, microbes and their interactions. A group of scientists involved in the molecular biology of plants and their interaction with microbes are being housed in a well-equipped, newly modeled laboratory. And a new group of about 10 faculty members will join this intercollegiate program.

Dr. Tzagournis and Dr. Malarkey are working at The Ohio State University Clinic Research Center to provide a controlled environment for clinical investigations that is not found under the general medical ward. Also to ensure that research studies progress as smoothly and efficiently as possible by providing a staff of skilled professionals to help investigate and conduct their research. This research unit affords OSU scientists, both basic and clinical, the opportunity to seek pathological and psychological insights into the diseases and mechanisms, develop new diagnostic tests, and pursue new treatments and methodologies. It is the only arena for testing new developments from the laboratory and exploring the relevance to man. I suggest to Dr. Tzagournis and Dr. Malarkey that this should be a very interesting and successful program that the University Medical School can be very proud of. Jack, do you have anything you want to add on to this?

Dr. Jack Hollander:

No.

Mr. Barone:

I think that Jack is doing a tremendous job. I don't know what we would do in the research program without him. And the longer I get to know him, he amazes me with what he is doing on behalf of research at OSU. I think that we all owe Jack a tremendous amount, because he is doing a tremendous work and I hope he lives forever and stays here forever. That is the end of my report.

Mr. Immke:

Thank you, John. Mrs. Bowser, will you give the Hospitals Board report?

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Mrs. Bowser:

With your permission, Mr. Immke, I am going to highlight some of these items rather than read the full minutes. The Hospitals Board's Executive Committee met both December 17 and January 28. We have had two meetings since we last met. We have recommended to the Board of Trustees the Medical Staff appointments which appear before you.

The Joint Commission on Accreditation of Hospitals has completed its survey and they met with key people both from the Medical Staff and from the Hospitals Board, and we have had conferences about that. There were very few deficiencies, but that preliminary report will be presented within the next 60 days.

The Hospitals Board is beginning to implement a reorganization of the Board. We have brought this to you before. There will be three committees: 1) the Strategic Planning Committee; 2) the Administration/Operations Committee; and 3) the Professional Affairs/Research Committee. We hope that this will modernize, so to speak, our responsibilities in these different areas. We will keep you posted as to how that is coming along.

I know that there has been some interest on the Board about the Comparative Analysis not only of hospitals locally, but hospitals in the Big 10 and mid-west. We are beginning to gather some data on that. I think it was surprising that the findings did not show as much as we had anticipated they would. But we will be bringing some of those reports to you as they occur.

Dr. Mekhjian brought to our attention at the last Board meeting the good cooperation we have with the VA, which is located to the west of our campus, and he hoped that would continue. There are some negotiations going on, but they are being handled well.

Dr. David Schuller is heading a committee for Ambulatory Surgery which is taking a look at what we are doing and seeing if we need to upgrade or make any changes, whether we should upgrade our present facilities or move to a different location. Those were very interesting findings and that will be continued to looked at.

And, lastly, Mr. Jackson reported that the Cancer Hospital is having a few difficulties, but he is on top of it and it looks like it is progressing as fast as humanly possible. He is taking every step possible to see that we get in there eventually -- seeing that we have level floors, and the right color bricks, and all the things that are important.

I would be happy to discuss any of this or answer any questions, but it is before you.

Mr. Immke:

If not level floors, at least all the slants going in the same

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Mr. Immke: (contd)

direction -- parallel floors. Any questions? That concludes our committee reports.

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AMENDMENTS TO THE RULES OF THE UNIVERSITY FACULTY

Resolution No. 88-77

Synopsis: Amendments to rules 3335-5-46, 3335-5-47, 3335-5-471, 3335-5-472, 3335-5-473, 3335-5-474, 3335-5-48, 3335-5-481, 3335-5-482, 3335-5-483, 3335-5-484, 3335-5-485, 3335-5-486, 3335-5-487, 3335-5-488, 3335-5-489, 3335-5-4810, 3335-5-4811, 3335-5-4812, 3335-5-4813, 3335-5-4814, and 3335-5-4816 are being proposed.

WHEREAS the University Senate pursuant to rule 3335-1-09 of the Administrative Code is authorized to recommend through the President to the Board of Trustees the adoption of amendments to the Rules of the University Faculty as approved by the University Senate; and

WHEREAS the proposed changes in the Rules of the University Faculty were approved by the University Senate on December 5, 1987, as follows:

AMENDED RULES

3335-5-46 Senate committee operating procedures.

The university senate shall have committees designated as organizing, standing, or special.

(A) Membership.

- (1) Unless otherwise designated by rule, the president shall appoint all committees of the university faculty and the senate (see paragraph (D) of rule 3335-3-03 of the Administrative Code).
- (2) When a rule provides for the option of selecting a designee to a committee, the designee shall be appointed by the person being replaced.
- (3) Committee vacancy.
 - (a) The chairperson will report vacancies to the appropriate nominating source through the office of the university senate. For the purpose of this rule, a vacancy exists when an elected member is unable to meet the participation requirements defined by the committee.
 - (b) When an unexpired term becomes vacant, the vacancy shall be filled in a manner consonant with the original method of committee selection. A member selected to fill such a vacancy shall serve for the duration of the unexpired term.
- (4) The membership of each committee shall be made known through the report of the secretary of the university senate.

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AMENDMENTS TO THE RULES OF THE UNIVERSITY FACULTY (contd)

(5) Terms of service.

Unless otherwise specified by the rules, terms of service of senate committee members shall begin and end on the first day of autumn quarter.

Balance unchanged.

3335-5-47 Organizing committees of the senate.

(A) unchanged.

(B) Membership.

(1) The president shall appoint members of the administration; the council of graduate students, the inter-professional council, and the undergraduate student assembly shall select members of their own constituency using procedures adopted by their respective bodies. Members of the faculty council serving the following year shall elect members of the faculty from a ballot prepared by the executive committee of the faculty council. The ballot shall be based on nominations solicited in writing from the faculty. The executive committee of the faculty council shall provide the steering committee with the opportunity to make suggestions for additions to or deletions from the ballot before it is distributed to the faculty for voting. The ballot shall include at least one more name than there are positions to be filled and shall provide space for write-in votes for each committee.

(2) Only members of the senate may serve on organizing committees.

(3) Terms of service.

(a) Faculty members shall serve two-year terms and shall not be eligible for immediate reelection until one full year has elapsed unless they have served less than two-thirds of a full term.

(b) Student members shall serve one-year terms and shall be eligible for reappointment.

(c) Appointed administration members shall serve two-year terms and shall not be eligible for immediate reappointment until one full year has elapsed unless they have served less than two-thirds of a full term.

(d) Multiyear terms shall be staggered so that approximately equal proportions of the number of members retire each year.

Balance unchanged.

3335-5-471 Steering committee.

(A) Membership.

AMENDMENTS TO THE RULES OF THE UNIVERSITY FACULTY (contd)

The steering committee shall consist of fourteen members.

- (1) Six regular faculty all of whom are members of the senate, elected by faculty council. The term of service is two years.
 - (2) Four students.
 - (a) The president of the council of graduate students.
 - (b) The president of the inter-professional council.
 - (c) The president of the undergraduate student government.
 - (d) One appointed by the undergraduate student government from the undergraduate student membership of the senate. The term of service is one year.
 - (3) Four administrators.
 - (a) The vice president for academic affairs and provost.
 - (b) The vice president for finance.
 - (c) The secretary of the university senate (non-voting).
 - (d) A dean who is a member of the senate, appointed by the president. The term of service is two years.
- (B) Duties and responsibilities.

- (1) Be the senate's committee on committees: the steering committee shall have the power to call, by vote of nine of its members, a special meeting of the senate, and shall have such power and duties as the senate may delegate to it during periods when the senate is not in session. It may create subcommittees and may delegate to them any of its powers, functions, and duties.
- (2) Review the structure, operation, and effectiveness of the senate and its committees. It shall receive suggestions, review proposed rule changes, and initiate recommendations for change in the structure and operation of the senate, including structure, duties, and responsibilities of senate committees, without, however, in any way restricting the senate's authority to alter its operations by other means. The steering committee may also review other proposed rule changes prior to presentation to the senate.
- (3) Serve as a channel of communication between the senate and the president and the board of trustees. Members shall be an advisory group available to both the president and the board of trustees for advice and counsel on any matter relating to the operation and development of the university. After consulting with the president, the members of the steering committee may request and obtain a meeting with the board of trustees.

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AMENDMENTS TO THE RULES OF THE UNIVERSITY FACULTY (contd)

- (4) Meet at least once every year with the chairperson of each standing committee.

(C) Organization.

- (1) For the period of time beginning with the selection of its members in spring quarter and ending with the start of the autumn quarter, the steering committee shall consist of the newly selected and continuing members. During this period, the outgoing members shall serve as alternates.
- (2) The committee shall annually elect a chairperson from its regular faculty membership.
- (3) As an organizing committee of the senate, this committee is also governed by the provisions of rules 3335-5-46 and 3335-5-47 of the Administrative Code.

3335-5-472 Program Committee.

(A) Membership.

The program committee shall consist of nine members.

- (1) Four regular faculty all of whom are members of the senate, elected by faculty council. The term of service is two years.
- (2) Three students all of whom are members of the senate.
 - (a) One graduate student selected by the council of graduate students. The term of service is one year.
 - (b) One professional student selected by the inter-professional council. The term of service is one year.
 - (c) One undergraduate student selected by the undergraduate student assembly. The term of service is one year.
- (3) Two administrators.
 - (a) unchanged.
 - (b) A dean who is a member of the senate, appointed by the president. The term of service is two years.

Balance unchanged.

3335-5-473 Rules committee.

(A) Membership.

The rules committee shall consist of ten members.

- (1) Six regular faculty all of whom are members of the senate, elected by faculty council. The term of service is two years.

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AMENDMENTS TO THE RULES OF THE UNIVERSITY FACULTY (contd)

- (2) Three students all of whom are members of the senate.
 - (a) One graduate student selected by the council of graduate students. The term of service is one year.
 - (b) One professional student selected by the inter-professional council. The term of service is one year.
 - (c) One undergraduate student selected by the undergraduate student assembly. The term of service is one year.
- (3) One administrator. The secretary of the university senate.

Balance unchanged.

3335-5-474 Elections Committee.

(A) Membership.

The elections committee shall consist of nine members.

- (1) Four regular faculty all of whom are members of the senate, elected by the faculty council. The term of service is two years.
- (2) Four students all of whom are members of the senate.
 - (a) One graduate student selected by the council of graduate students. The term of service is one year.
 - (b) One professional student selected by the inter-professional council. The term of service is one year.
 - (c) Two undergraduate students selected by the undergraduate student assembly. The term of service is one year.
- (3) One dean who is a member of the senate, appointed by the president. The term of service is two years.

Balance unchanged.

3335-5-48 Standing and special committees of the senate.

(A) unchanged.

(B) Membership.

- (1) All standing and special committees of the senate shall include at least one regular faculty member of the senate.
- (2) Unless otherwise specified by the rules, or by the senate, the president shall appoint members of the administration; the council of graduate students, the inter-professional council, and the undergraduate student government shall select members of their own constituency using procedures adopted by their respective bodies. Members of the faculty council serving the

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AMENDMENTS TO THE RULES OF THE UNIVERSITY FACULTY (contd)

following year shall elect members of the faculty from a ballot prepared by the executive committee of the faculty council. The ballot shall be based on nominations solicited in writing from the faculty. The executive committee of the faculty council shall provide the steering committee with the opportunity to make suggestions for additions to or deletions from the ballot before it is distributed to the faculty council for voting. The ballot shall include at least one more name than there are positions to be filled and shall provide space for write-in votes for each committee.

- (3) Terms of service. Unless otherwise specified by the rules, student members shall serve one-year terms and be eligible for reappointment; voting faculty and appointed administrative members shall serve three-year terms and shall be ineligible for immediate reelection or reappointment until one full year has elapsed unless they have served less than two-thirds of a full term. Multiyear terms shall be staggered so that approximately equal proportions of the number of members retire from the committee each year.

Balance unchanged.

3335-5-481 Council on academic affairs.

(A) Membership.

The council on academic affairs shall consist of fourteen members.

(1) Nine regular faculty.

- (a) Five regular faculty at least two of whom are members of the senate, elected by the faculty council. The term of service is three years.
- (b) Four regular faculty shall be appointed by the president. The term of service is three years.

(2) Four students.

- (a) One graduate student selected by the council of graduate students. The term of service is one year.
- (b) One professional student selected by the inter-professional council. The term of service is one year.
- (c) Two undergraduate students selected by the undergraduate student government. The term of service is two years and one student is appointed each year.

- (3) One administrator. The vice president for academic affairs and provost, or designee.

Balance unchanged.

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AMENDMENTS TO THE RULES OF THE UNIVERSITY FACULTY (contd)

3335-5-482 The library council.

(A) Membership.

The library council shall consist of sixteen members.

- (1) Nine regular faculty elected by the faculty council. The term of service is three years.
- (2) Four students.
 - (a) One graduate student selected by the council of graduate students. The term of service is one year.
 - (b) One professional student selected by the inter-professional council. The term of service is one year.
 - (c) Two undergraduate students selected by the undergraduate student government. The term of service is one year.
- (3) Three administrators.
 - (a) The vice president for academic affairs and provost, or designee.
 - (b) The dean of the graduate school.
 - (c) The director of libraries.

Balance unchanged.

3335-5-483 Committee on university bookstores.

(A) Membership.

The committee on university bookstores shall consist of eleven members.

- (1) Five regular faculty one of whom is a member of the university libraries, elected by the faculty council. The term of service is three years.
- (2) Four students.
 - (a) One graduate student selected by the council of graduate students. The term of service is one year.
 - (b) One professional student selected by the inter-professional council. The term of service is one year.
 - (c) Two undergraduate students selected by the undergraduate student government. The term of service is one year.
- (3) Two administration members, non-voting.
 - (a) Vice president for business and administration or designee.

February 4 and 5, 1988 meeting, Board of Trustees

AMENDMENTS TO THE RULES OF THE UNIVERSITY FACULTY (contd)

(b) Director, the Ohio state university bookstores.

Balance unchanged.

3335-5-484 Council on student affairs.

(A) Membership.

The council on student affairs shall consist of eighteen members.

(1) Six regular faculty at least two of whom are members of the senate, elected by the faculty council. The term of service is three years.

(2) Eight students.

(a) Two graduate students selected by the council of graduate students. The term of service is one year.

(b) One professional student selected by the inter-professional council. The term of service is one year.

(c) Two undergraduate students selected by the undergraduate student government. The term of service is one year.

(d) One student who is a member of the freshman senate, appointed by the president of the freshman senate with the approval of the freshman senate. The term of service is one year.

(e) The president of the undergraduate student government or designee.

(f) The president of the association of women students or designee.

(3) Four administrators. Each administrator shall be appointed for a one-year term and shall be eligible for reappointment.

(a) The dean of student life, non-voting.

(b) A student affairs staff member from a regional campus, appointed by the vice provost for student affairs, non-voting.

(c) A college office student affairs staff member appointed by the vice provost for student affairs, non-voting.

(d) The vice provost for student affairs or designee, voting only in case of ties.

Balance unchanged.

3335-5-485 Athletic council.

(A) The athletic council shall consist of fourteen members.

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AMENDMENTS TO THE RULES OF THE UNIVERSITY FACULTY (contd)

(1) Eight regular faculty.

- (a) Four regular faculty members elected by the faculty council. The term of service is four years with service commencing the first of July following election.
- (b) Four regular faculty members appointed by the president. The term of service is four years with service commencing the first of July following appointment.

(2) Four students.

- (a) One graduate student selected by the council of graduate students. The term of service is one year.
 - (b) One professional student selected by the inter-professional council. The term of service is one year.
 - (c) Two undergraduate students selected by the undergraduate student government. The term of service is two years and one student is selected each year.
- (3) Two alumni designated by the Ohio state university alumni association using procedures adopted by that body. The term of service is four years and the terms are staggered so that one member retires every two years.**

Balance unchanged.

3335-5-486 Council on admission and registration.

(A) Membership.

The council on admission and registration shall consist of nineteen members.

(1) Nine regular faculty.

- (a) Three regular faculty appointed by the president for three-year terms. Appointed members are eligible for reappointment.
- (b) Six regular faculty at least two of whom are senate members, elected by the faculty council. The term of service is three years.

(2) Five students.

- (a) Two graduate students selected by the council of graduate students. The term of service is one year.
- (b) One professional student selected by the inter-professional council. The term of service is one year.
- (c) Two undergraduate students selected by the undergraduate student government. The term of service is one year.

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AMENDMENTS TO THE RULES OF THE UNIVERSITY FACULTY (contd)

(3) Five administration members, all non-voting.

- (a) Vice president for academic affairs and provost, or designee.
- (b) Vice provost for student affairs or designee.
- (c) Vice president for finance or designee.
- (d) University registrar.
- (e) Director of admissions.

Balance unchanged.

3335-5-487 Committee on academic misconduct.

(A) Membership.

The committee on academic misconduct shall consist of twenty-seven members.

- (1) Fifteen regular faculty, elected by the faculty council. The term of service is three years. No faculty member shall serve more than two consecutive terms.
- (2) Ten students.
 - (a) Five graduate students selected by the council of graduate students. The term of service is one year beginning with the autumn quarter.
 - (b) Five undergraduate students selected by the undergraduate student government. The term of service is one year beginning with the summer quarter.
- (3) Two administrators.
 - (a) The dean of student life or designee, non-voting.
 - (b) A coordinator, appointed by the vice president for academic affairs and provost, who shall not participate in the decisions of the committee.

Balance unchanged.

3335-5-488 Committee on honorary degrees.

(A) Membership.

The committee on honorary degrees shall consist of five members of the regular faculty elected by the faculty council. The term of service is five years.

Balance unchanged.

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AMENDMENTS TO THE RULES OF THE UNIVERSITY FACULTY (contd)

3335-5-489 Committee on academic freedom and responsibility.

(A) Membership.

The committee on academic freedom and responsibility shall consist of eight members during autumn, winter, and spring quarters and ten members from June to the beginning of autumn quarter.

- (1) Six regular faculty (eight during the summer period) all of whom are members of the senate, elected by the faculty council. The term of service begins in the summer quarter following election and extends through the summer quarter following the third year of service.
- (2) Two graduate teaching, research, or administrative associates selected by the council of graduate students. The term of service is one year.

Balance unchanged.

3335-5-4810 Faculty hearing committee.

(A) Membership.

The faculty hearing committee shall consist of nine tenured members of the regular faculty elected by the faculty council. Each elected person shall serve a three-year term as a regular member followed by a one-year term as an alternate member.

Balance unchanged.

3335-5-4811 Fiscal committee.

(A) Membership.

The fiscal committee shall consist of fifteen members.

- (1) Seven regular faculty members.
 - (a) Five regular faculty at least two of whom are members of the senate, elected by the faculty council. The term of service is three years.
 - (b) Two regular faculty appointed by the president. The term of service is three years.
- (2) Four students.
 - (a) One graduate student selected by the council of graduate students. The term of service is two years.
 - (b) One professional student selected by the inter-professional council. The term of service is two years.
 - (c) Two undergraduate students at least one of whom is a member of the senate, selected by the undergraduate

February 4 and 5, 1988 meeting, Board of Trustees

AMENDMENTS TO THE RULES OF THE UNIVERSITY FACULTY (contd)

student government. The term of service is two years, and one member shall be appointed each year.

- (3) Two staff members appointed by the president for two-year terms.
- (4) Two administrators appointed by the president. These members are non-voting.

Balance unchanged.

3335-5-4812 Faculty compensation and benefits committee.

(A) Membership.

The faculty compensation and benefits committee shall consist of fifteen members.

- (1) Twelve regular faculty at least two of whom are members of the senate, elected by the faculty council. The term of service is three years.
- (2) Two administrators.
 - (a) The vice president for academic affairs and provost, or designee.
 - (b) The vice president for personnel services or designee.
- (3) An emeritus member from the regular faculty appointed annually by the president in consultation with the Ohio state university retirees association.
- (4) Additional non-voting members and consultants from the university, serving at the discretion of the voting members of the committee.

Balance unchanged.

3335-5-4813 Legislative affairs committee.

(A) Membership.

The legislative affairs committee shall consist of seven members.

- (1) Three regular faculty elected by the faculty council. The term of service is three years.
- (2) Three students.
 - (a) One graduate student selected by the council of graduate students. The term of service is one year.
 - (b) One professional student selected by the inter-professional council. The term of service is one year.

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AMENDMENTS TO THE RULES OF THE UNIVERSITY FACULTY (contd)

- (c) One undergraduate student selected by the undergraduate student government. The term of service is one year.

- (3) One administrator, appointed annually by the president.

Balance unchanged.

3335-5-4814 University calendar committee.

(A) Membership.

The university calendar committee shall consist of fourteen members.

- (1) Six regular faculty elected by the faculty council. The term of service is three years.

- (2) Four students.

- (a) One graduate student selected by the council of graduate students. The term of service is one year.

- (b) One professional student selected by the inter-professional council. The term of service is one year.

- (c) Two undergraduate students at least one of whom is a member of the senate, selected by the undergraduate student government. The term of service is one year.

- (3) Four administrators.

- (a) The vice president for academic affairs and provost, or designee.

- (b) A representative of the council of deans.

- (c) The university registrar or designee.

- (d) The vice president for personnel services or designee.

Balance unchanged.

3335-5-4816 Committee on women and minorities.

(A) Membership.

The committee on women and minorities shall consist of eleven members.

- (1) Six regular faculty elected by the faculty council. The term of service is three years.

- (2) Three students.

- (a) One graduate student selected by the council of graduate students. The term of service is one year.

February 4 and 5, 1988 meeting, Board of Trustees

AMENDMENTS TO THE RULES OF THE UNIVERSITY FACULTY (contd)

- (b) One professional student selected by the inter-professional council. The term of service is one year.
- (c) One undergraduate student selected by the undergraduate student government. The term of service is one year.
- (3) Two administration members, non-voting.
 - (a) The vice provost for minority affairs or designee.
 - (b) The executive officer for human relations or designee.

Balance unchanged.

NOW THEREFORE

BE IT RESOLVED, That the foregoing amendments to the Rules of the University Faculty be adopted as recommended by the University Senate.

Upon motion of Mrs. Bowser, seconded by Mr. Teaford, the Board of Trustees adopted the foregoing resolution by unanimous voice vote.

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PERSONNEL ACTIONS

Resolution No. 88-78

RESOLVED, That the personnel actions as recorded in the Personnel Budget Records of the University since the December 4, 1987 meeting of the Board, including the following Appointments, Reappointment of Principal Administrative Officials, Appointment of Chairpersons of Academic Faculty and Department, and Directors of Centers, Reappointment of Chairperson of Department, Leaves of Absence Without Salary, Leave of Absence Without Salary--Continuation, Promotion/Tenure, and Emeritus Titles as detailed in the University Budget be approved, and the Medical Staff Appointments/Reappointments approved December 17, 1987, by the Hospitals Board be ratified.

Appointments

Name:	GREGORY R. BAKER
Title:	Professor (Ohio Eminent Scholar in Scientific Computation)
Department:	Mathematics
Effective:	October 1, 1988
Salary:	\$82,200.00
Present Position:	Research Mathematician, CRSL, Exxon Research and Eng. Co., Annandale, NJ, and Visiting Fellow, Dept. of Mechanical and Aerospace Engineering, Princeton University, Princeton, NJ

February 4 and 5, 1988 meeting, Board of Trustees

PERSONNEL ACTIONS (contd)

Appointments (contd)

Name: FRED R. TABITA
Title: Professor (Ohio Eminent Scholar in Industrial Microbiology)
Department: Microbiology
Effective: January 1, 1989
Salary: \$75,000.00
Present Position: Assistant Director and Professor, Center for Applied Microbiology, The University of Texas at Austin, Austin, TX

Reappointment of Principal Administrative Officials

RICHARD E. BOETTCHER, Dean, College of Social Work, effective July 1, 1988, through June 30, 1993, pursuant to rule 3335-3-17 of the Administrative Code.

G. MICHAEL RILEY, Dean, College of Humanities, effective July 1, 1988, through June 30, 1993, pursuant to rule 3335-3-17 of the Administrative Code.

Appointment of Chairpersons of Academic Faculty and Department, and Directors of Centers

July 1, 1987 through June 30, 1988

Center for Slavic and East European Studies Michael W. Curran*

October 1, 1987 through June 30, 1988

Ohio Supercomputer Center Clyde W. McCurdy*

January 1, 1988 through June 30, 1992

Family Relations and Human Development Albert J. Davis

January 1, 1988 through September 30, 1992

Academic Faculty of Finance Frank F. Gibson

*Acting Director

Reappointment of Chairperson of Department

January 1, 1988 through June 30, 1992

Metallurgical Engineering George R. St. Pierre

Leaves of Absence Without Salary

HEINZ G. FLOSS, Professor, Department of Chemistry, effective Winter Quarter, Spring Quarter, and Autumn Quarter 1988, to accept a position at the University of Washington.

February 4 and 5, 1988 meeting, Board of Trustees

PERSONNEL ACTIONS (contd)

Leaves of Absence Without Salary (contd)

ERNST RUH, Professor, Department of Mathematics, effective Spring Quarter 1988, to accept a position at the University of Basil.

CHON-LIANG TSAI, Associate Professor, Department of Welding Engineering, effective Autumn Quarter 1987, Winter Quarter and Spring Quarter 1988, to serve as Vice President of Research Planning and Program Execution at Metal Industries Development Centre, Taiwan, Republic of China.

LESLIE A. ADELSON, Assistant Professor, Department of German, effective Winter Quarter and Spring Quarter 1988, to accept a Humboldt Fellowship in Hamburg, Germany.

RICHARD O. NATHAN, Assistant Professor, Academic Faculty of Finance, effective Autumn Quarter 1987 and Spring Quarter 1988, for personal reasons.

Leave of Absence Without Salary--Continuation

REBECCA D. JACKSON, Assistant Professor, Department of Internal Medicine, effective October 19, 1987, through June 30, 1988, for medical reasons.

Emeritus Titles

KENNETH W. SLOAN, Ohio State University Research Foundation, with the title Executive Director Emeritus - Research Foundation, effective February 1, 1988.

GEORGE J. BANWART, Department of Microbiology, with the title Professor Emeritus, effective January 1, 1988.

HARRY BLYTHE, Academic Faculty of Finance, with the title Professor Emeritus, effective January 1, 1988.

WILLIAM R. BROWN, Department of Communication, with the title Professor Emeritus, effective January 1, 1988.

ROBERT W. COLE, Cooperative Extension Service, with the title Professor Emeritus, effective February 1, 1988.

JAMES L. GOLDEN, Department of Communication, with the title Professor Emeritus, effective January 1, 1988.

TED L. JONES, Cooperative Extension Service, with the title Professor Emeritus, effective February 1, 1988.

RICHARD L. MILLER, Cooperative Extension Service, with the title Professor Emeritus, effective February 1, 1988.

BYRON H. NOLTE, Department of Agricultural Engineering, with the title Professor Emeritus, effective February 1, 1988.

JOHN S. RIESKE, Department of Physiological Chemistry, with the title Professor Emeritus, effective August 1, 1987.

February 4 and 5, 1988 meeting, Board of Trustees

PERSONNEL ACTIONS (contd)

Emeritus Titles (contd)

PAUL R. THOMAS, Cooperative Extension Service, with the title Professor Emeritus, effective January 1, 1988.

CHESTER C. WINTER, Department of Surgery - Urology, with the title Professor Emeritus, effective February 1, 1988.

JOHN P. RIEPENHOFF, Department of Pediatrics, with the title Clinical Professor Emeritus, effective July 1, 1987, as an exception to the Rules of the University Faculty, 3335-5-19(C).

HANS G. BREDEMEYER, Department of Ophthalmology, with the title Associate Professor Emeritus, effective October 1, 1987.

CORNELIUS J. CUNNINGHAM, Cooperative Extension Service, with the title Associate Professor Emeritus, effective February 1, 1988.

BOBBIE D. DAVIS, Cooperative Extension Service, with the title Associate Professor Emeritus, effective February 1, 1988.

SALLY K. EBLING, Cooperative Extension Service, with the title Associate Professor Emeritus, effective February 1, 1988.

EDWARD C. FLADT, Cooperative Extension Service, with the title Associate Professor Emeritus, effective January 1, 1988.

HARRY L. FREEMAN, Cooperative Extension Service, with the title Associate Professor Emeritus, effective January 1, 1988.

ROBERT H. GROVES, Cooperative Extension Service, with the title Associate Professor Emeritus, effective February 1, 1988.

B. PAUL HARTLEY, Cooperative Extension Service, with the title Associate Professor Emeritus, effective February 1, 1988.

DONALD K. MYERS, Department of Agronomy, with the title Associate Professor Emeritus, effective February 1, 1988.

DONALD W. POLLACK, Cooperative Extension Service, with the title Associate Professor Emeritus, effective February 1, 1988.

ALBERT R. PUGH, Cooperative Extension Service, with the title Associate Professor Emeritus, effective January 1, 1988.

DAVID L. REED, Cooperative Extension Service, with the title Associate Professor Emeritus, effective January 1, 1988.

JOHN D. RUOFF, Cooperative Extension Service, with the title Associate Professor Emeritus, effective February 1, 1988.

BERNARD S. SNYDER, College of Dentistry - Oral and Maxillofacial Surgery, with the title Associate Professor Emeritus, effective February 1, 1988.

JOHN F. TRIERWEILER, Department of Agronomy, with the title Associate Professor Emeritus, effective January 1, 1988.

February 4 and 5, 1988 meeting, Board of Trustees

PERSONNEL ACTIONS (contd)

Emeritus Titles (contd)

WILLIAM D. UMSTATTD, Department of Educational Studies: Humanities, Science, Technological and Vocational, with the title Associate Professor Emeritus, effective January 1, 1988.

PAUL L. WRIGHT, Department of Agricultural Economics and Rural Sociology, with the title Associate Professor Emeritus, effective February 1, 1988.

RONALD G. COURTRIGHT, Cooperative Extension Service, with the title Assistant Professor Emeritus, effective February 1, 1988.

DOUGLAS G. FRATIANNE, Department of Botany, with the title Assistant Professor Emeritus, effective January 1, 1988.

LILLABELLE HOLT, Department of Educational Theory and Practice (Newark Campus), with the title Assistant Professor Emeritus, effective August 1, 1987.

ROBERT W. LAHMERS, Cooperative Extension Service, with the title Assistant Professor Emeritus, effective January 1, 1988.

ELMER OLSEN, Cooperative Extension Service, with the title Assistant Professor Emeritus, effective February 1, 1988.

BIRUTA Z. OSIS, University Libraries, with the title Assistant Professor Emeritus, effective January 1, 1988.

ROBERT G. SMITH, College of Dentistry - Restorative and Prosthetic Dentistry, with the title Assistant Professor Emeritus, effective January 1, 1988.

L. JEAN BAUMAN, Cooperative Extension Service, with the title Instructor Emeritus, effective February 1, 1988.

L. ROBERT IRVIN, Cooperative Extension Service, with the title Instructor Emeritus, effective February 1, 1988.

DON M. MORTENSEN, Cooperative Extension Service, with the title Instructor Emeritus, effective February 1, 1988.

HAROLD STARR, National Center for Research in Vocational Education, with the title Senior Research Specialist Emeritus, effective January 1, 1988.

LOUISE B. VETTER, National Center for Research in Vocational Education, with the title Senior Research Specialist Emeritus, effective February 1, 1988.

Professor Boris Mityagin:

Can I speak about one candidate?

President Jennings:

Excuse me?

February 4 and 5, 1988 meeting, Board of Trustees

PERSONNEL ACTIONS (contd)

Professor Mityagin:

Can I speak about one candidate?

President Jennings:

Well, you ordinarily should have requested that ahead of time and gotten it on the schedule, but perhaps one minute --

Professor Mityagin:

Okay. I could not make this request two weeks before this session, according to regulations, because the case was not and could not be in the agenda at that time. The person agreed to be a candidate only two days ago. How that case could be in that agenda two weeks ago? I am talking about Greg Baker, the candidate for Ohio Eminent Scholar. He agreed to be appointed only two days ago. How could I act two weeks ago --

President Jennings:

You're being allowed to speak now. What is the point?

Professor Mityagin:

I could not speak because I am not prepared to speak. I am strongly against this appointment and I would like to present all the objections to the Board of Trustees. I would do that during the next session and I would ask two weeks in advance to talk about this issue. I would prepare all the objections, I would consult lawyers on this matter. I could not speak today, and I don't understand why this issue is in the agenda if Greg Baker agreed to be appointed only two days ago.

President Jennings:

Thank you. This is a recommendation that has been before a faculty committee of the Department of Mathematics, is recommended by that faculty committee. There was a complete opportunity for the faculty to debate this recommendation fully. It has been recommended by the Department Chairman and by the Dean of the College, and recommended now by the Provost. I would recommend it for your approval.

Upon motion of Mr. Barone, seconded by Mrs. Bowser, the Board of Trustees adopted the foregoing resolution by unanimous roll call vote.

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RESOLUTIONS IN MEMORIAM

Resolution No. 88-79

Synopsis: Resolutions honoring the service of five of the University's faculty members who have recently died are being proposed.

February 4 and 5, 1988 meeting, Board of Trustees

RESOLUTIONS IN MEMORIAM (contd)

RESOLVED, That the Board adopt the following Resolutions in Memoriam and that the President be requested to convey a copy to the families of the deceased.

John W. Black

The Board of Trustees of The Ohio State University expresses its sorrow upon the death on December 5, 1987, of John W. Black, Professor Emeritus in the Department of Communication.

Dr. Black was born on February 9, 1906, in Veedersburg, Indiana. He graduated from Wabash College with an A.B. degree with honors and received the M.A. and Ph.D. degrees from the University of Iowa. Prior to assuming his appointment at The Ohio State University, he was Professor of Speech, Adrian College in Adrian, Michigan, and Professor of Speech at Kenyon College in Gambier, Ohio. He was appointed Professor of Speech and Director of the Speech and Hearing Science Area at The Ohio State University in 1949, and was later named Regents Professor of Communication. Upon his retirement in 1976, he was named Professor Emeritus.

Dr. Black received many honors during his career to include a Presidential Citation during World War II, a Fulbright Scholarship, election to Phi Beta Kappa, Fellowship in the American Speech-Language-Hearing Association, Fellowship in the Japanese Society for the Promotion of Science, and Honors of The American Speech-Language-Hearing Association. Three honorary doctoral degrees were conferred upon him: an Sc.D. from Bowling Green State University; an L.H.D. from Wabash College; and an L.H.D. from The Ohio State University.

He authored or co-authored nine books, 18 chapters in books, and 145 journal articles.

Dr. Black carried out research in experimental phonetics in Zagreb, Yugoslavia, Milan and Rome, Italy, and Chiba, Japan. He was consultant to many organizations and agencies to include the U.S. Navy, The Veterans' Administration, Danish Institute for the Deaf in Copenhagen, the Practicing Law Institute of Dallas, Texas, and the Linguistic Circle of Rome, Italy. He was distinguished for his research in experimental phonetics and was highly successful in transmitting his enthusiasm and excitement for research to his students. His rigor, excellence, and genuine concern for his students contributed significantly to their development, the academic unit he served, and thus to the quality of the University.

On behalf of the University, the Board of Trustees expresses to the family its deep sympathy. It was directed that this resolution be inscribed upon the minutes of the Board of Trustees and that a copy be tendered to the family as an expression of the Board's heartfelt sympathy.

February 4 and 5, 1988 meeting, Board of Trustees

RESOLUTIONS IN MEMORIAM (contd)

Sydney Nettleton Fisher

The Board of Trustees of The Ohio State University expresses its sorrow upon the death on December 10, 1987, of Dr. Sydney N. Fisher, Professor Emeritus in the Department of History.

Born on August 8, 1906, in Warsaw, New York, Dr. Fisher received his undergraduate education on a four-year scholarship at Oberlin College which awarded him an A.B. degree in 1928 and an M.A. degree in 1932. He continued his graduate studies, specializing in Middle East history, at the University of Illinois where he received his Ph.D. degree in 1935. At Princeton University and the University of Brussels, Dr. Fisher pursued post-doctoral studies under grants from the American Council of Learned Societies. Because of his exceptional academic record, he was elected to Phi Beta Kappa and Phi Kappa Phi.

Dr. Fisher's long and distinguished teaching career began at Robert College in Istanbul, Turkey, immediately after his undergraduate days at Oberlin. With the exception of one year at Denison and brief terms at several other universities, Dr. Fisher's brilliant teaching career was dedicated to The Ohio State University where he began as an instructor in 1937 and achieved a full professorship in 1955. Upon his retirement in 1972, he was named Professor Emeritus. World War II found Dr. Fisher serving his government in Washington, D.C., with the Board of Economic Warfare and the Department of State.

Administrative duties and research challenged Dr. Fisher's talents and energy. Graduate studies in the Department of History as well as area and international programs at the University greatly benefited from his contributions. A highly respectable list of books and articles flowed from his pen, including what became a standard college textbook: The Middle East: A History. At the time of his death, Dr. Fisher was busily engaged in preparing a fourth revised edition. The Royal Historical Society in London recognized Dr. Fisher's scholarly accomplishments by electing him a Fellow in 1951. The Board of Trustees demonstrated its appreciation of Dr. Fisher's numerous, significant contributions to the University by granting him the Distinguished Service Award in 1982.

On behalf of the University community, the Board of Trustees expresses to the family its deepest sympathy. It was directed that this resolution be inscribed upon the minutes of the Board of Trustees and that a copy be tendered to the family as an expression of the Board's heartfelt sympathy.

William H. R. Howard

The Board of Trustees of The Ohio State University expresses its sorrow upon the death on November 12, 1987, of Dr. William H. R. Howard, Professor Emeritus in the Department of Radiology.

Dr. William Harry Howard graduated from The Ohio State University in 1938 with an A.B. degree. He received his M.D. degree from Western Reserve University in 1942. Dr. Howard was appointed an Instructor in the Department of Radiology at The Ohio State University in 1946 and was promoted to Assistant Professor in 1952, Associate Professor in 1958, and Professor in 1968. Dr. Howard was also a Clinical Professor in the

February 4 and 5, 1988 meeting, Board of Trustees

RESOLUTIONS IN MEMORIAM (contd)

William H. R. Howard (contd)

Department of Pediatrics. Dr. Howard retired in 1982 and at that time was named Professor Emeritus.

During his 46 years of service as a faculty member, he pioneered in the teaching and promotion of Pediatric Radiology having taught hundreds of physicians and particularly radiologists this subject. Dr. Howard served as the Chairman of the Department of Radiology at Children's Hospital from 1950 until his retirement in 1982. He served as a member of the Board of Directors of Children's Hospital and held membership in numerous medical organizations, among them the American College of Radiology and the Society for Pediatric Radiology of which he was a charter member. He made important contributions in the field of Pediatric Radiology for which he was known in the State of Ohio and nationally.

On behalf of the University community, the Board of Trustees expresses to the family its deepest sympathy. It was directed that this resolution be inscribed upon the minutes of the Board of Trustees and that a copy be tendered to the family as an expression of the Board's heartfelt sympathy.

Carleton L. Lohse

The Board of Trustees of The Ohio State University expresses its sorrow upon the death on November 1, 1987, of Carleton L. Lohse, Associate Professor in the College of Veterinary Medicine.

Born on November 10, 1936, in Minot, North Dakota, Dr. Lohse received his D.V.M. degree in 1960 from Iowa State University, and his Ph.D. degree in 1971 from the University of Sydney, Australia. Dr. Lohse had been Associate Professor of Veterinary Anatomy at Ohio State since 1985. He taught gross and microscopic anatomy and was involved in anatomical research. He served as the department's acting chairperson in 1986. Prior to his appointment at Ohio State, Dr. Lohse was on the veterinary anatomy faculty at the University of California at Davis for 13 years.

A member of several professional anatomical associations, Dr. Lohse had been president and secretary of the American Association of Veterinary Anatomists.

On behalf of the University, the Board of Trustees expresses to the family its deep sympathy and sense of understanding in their loss. It was directed that this resolution be inscribed upon the minutes of the Board of Trustees and that a copy be tendered to the family as an expression of the Board's heartfelt sympathy.

Arthur Tye

The Board of Trustees of The Ohio State University expresses its sorrow upon the death on October 1, 1987, of Arthur Tye, Professor Emeritus in the College of Pharmacy.

Arthur Tye was born in Rutherglen, Australia, on September 13, 1909. Following two years of pre-medical education at Wesley College, he

February 4 and 5, 1988 meeting, Board of Trustees

RESOLUTIONS IN MEMORIAM (contd)

Arthur Tye (contd)

entered the Melbourne College of Pharmacy, graduating with the Ph.C. degree in 1930. He managed a community pharmacy in Melbourne, until his interests took him to Hong Kong, and then to Peking Union Medical College, where he served as Instructor of Pharmacology and Chief Assistant of the Department of Pharmacy (1932-37); and later as Professor of Pharmacy and Head of the Department of Pharmacy (1937-41). He joined the faculty of the National University of Peking as Professor of Pharmacy in 1942, where he developed an interest in pharmaceutical manufacturing, serving as Chief Pharmacist for Fu-Min Laboratories (1942-44); and Chief Pharmacist and Head of the Pharmaceutical Division of the Dio-Oriental Chemical Corporation in Tientsin (1945-47); also serving as Managing Director of Pharmacie Universelle, China's first professional prescription pharmacy.

In 1947, he joined the nascent graduate program at The Ohio State University College of Pharmacy. His doctoral dissertation (1950) introduced a more sophisticated method of quantifying the potency of morphine and other analgetics. Hired as an Assistant Professor in 1951, he transformed the traditional instruction in "materia medica" to a modern series of courses in pharmacology. Promoted to Associate Professor in 1953 and Professor in 1960, he embarked upon an intensive period of research, which resulted in nearly 40 scientific publications, and directed 36 graduate students at both the master's and doctoral level. His research may have reached its zenith in a series of brilliant collaborative papers with Popat Patil and Jules LaPidus which explored the structure-activity relationship of the optical isomers of ephedrine. He was one of the first pharmacologists in a College of Pharmacy to be elected to the American Society of Pharmacology and Experimental Therapeutics. Dr. Tye also provided staunch support of the College's continuing education program and a reasoned and moderating influence in undergraduate curriculum development. He lent his zest to the annual Ohio Pharmaceutical Seminar (1956-60), encouraged the establishment of the College's Pharmacy Extension Services (1963), and worked with Jules LaPidus and others to formulate a series of courses integrating concepts of medicinal chemistry into the traditional offerings in pharmacology (1969). Upon his retirement in 1970, he was named Professor Emeritus.

On behalf of the University Community, the Board of Trustees expresses to the family of Arthur Tye its deepest sympathy. It was directed that this resolution be inscribed upon the minutes of the Board of Trustees and that a copy be tendered to the family as an expression of the Board's heartfelt sympathy.

Upon motion of Ms. Casto, seconded by Mr. Teaford, the Board of Trustees adopted the foregoing resolution by unanimous voice vote.

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REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS

Resolution No. 88-80

Synopsis: The reports on contracts, grants, and gifts and the summary for November and December 1987 are presented for Board acceptance.

February 4 and 5, 1988 meeting, Board of Trustees

REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)

WHEREAS monies are solicited and received on behalf of the University from governmental, industrial, other agencies, alumni, and various individuals in support of research, instructional activities, and service; and

WHEREAS such gifts and grants are received through The Ohio State University Research Foundation, the Engineering Experiment Station of The Ohio State University, and The Ohio State University Development Fund:

NOW THEREFORE

BE IT RESOLVED, That the research agreement between The Ohio State University and The Ohio State University Research Foundation for the contracts and grants reported herein, and the acceptance of the reports from the Engineering Experiment Station and The Ohio State University Development Fund during the month of November and December 1987 be approved.

Upon motion of Ms. Casto, seconded by Mr. Barone, the Board of Trustees adopted the foregoing resolution by unanimous voice vote.

SUMMARY FOR NOVEMBER 1987

Source	No. of Projects	Support Level
The Ohio State University Research Foundation	69	\$9,154,609.64
Engineering Experiment Station	48	\$ 254,796.00
Total	117	\$9,409,405.64

The Ohio State University Development Fund

Establishment of Named Funds

The Steve R. and Sarah E. O'Donnell Scientific Supercomputing Fund (To facilitate the use of supercomputers for research by the faculty)	\$ 400,000.00
The L. Edwin Smart Economics Symposium Fund (Seed money to plan and host the Smart Symposium in Economics)	\$ 100,000.00
Unrestricted General Library Endowment (Books, journals, personnel, supplies, equipment or for any activities related to preservation of library materials)	\$ 27,000.00
The Harriet L. Reynolds Endowment Fund (Provide post-baccalaureate scholarship assistance for a former member of an Ohio State women's intercollegiate varsity sports team)	\$ 21,500.00

February 4 and 5, 1988 meeting, Board of Trustees

REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)

SUMMARY FOR NOVEMBER 1987 (contd)

The Ohio State University Development Fund (contd)

Establishment of Named Funds (contd)

The Helene L. & Clement F. Frymote Memorial Endowment Fund (Scholarships for students attending The Ohio State University at Newark)	\$ 20,000.00
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The Jonathan David Micha Pediatric Allergy and Asthma Research Fund (Research, treatment and cure of pediatric asthma and allergy conditions)	\$ 6,300.00
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Change of Name and Description of Named Funds

From:	The Dorothy and George L. Lewis Scholarship Fund
To:	The Dorothy McAllister and George L. Lewis Memorial Scholarship Fund

From:	Harry and Carl Sonkin Memorial Award for International Understanding and Peace
To:	The Harry and Esther Sonkin Family Scholarship for International Understanding and Peace

SUMMARY FOR DECEMBER 1987

Source	No. of Projects	Support Level
The Ohio State University Research Foundation	91	\$4,693,396.52
Engineering Experiment Station	31	\$ 70,430.00
Total	122	\$4,763,826.52

The Ohio State University Development Fund

Establishment of Named Funds

The Ohio State University Marion Campus Prairie Nature Education Center Endowment (To provide salaries, educational grants, equipment, supplies, upkeep and management of the Prairie Nature Education Center)	\$ 200,000.00
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The Franklin O. Vogelsang Memorial Scholarship (Scholarships - College of Engineering)	\$ 67,917.02
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February 4 and 5, 1988 meeting, Board of Trustees

REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)

SUMMARY FOR DECEMBER 1987 (contd)

The Ohio State University Development Fund (contd)

Establishment of Named Funds (contd)

Thomas E. Powers Veterinary Clinical Pharmacology Fund

(Income for 1988 and 1989 will be used to establish a chair or professorship; beginning in 1990 the income will be used to support research and education)

\$ 25,000.00

**The Harry L. Thompson Scholarship Fund
(Scholarships - College of Education)**

\$ 20,000.00

**The Geraldine McFadden Kuhn Scholarship
(Scholarships for students attending the Marion Campus and who are pursuing a degree in the College of Home Economics or the Department of English)**

\$ 15,000.00

**The Dr. Dale A. Ray Memorial Fund
(Support the Dale A. Ray Award and to support teaching programs in the Department of Agronomy)**

\$ 5,000.00

Change of Name of Named Fund

From: The Richard D. Wood, Sr., Endowment Fund

To: The Margaret and Richard D. Wood, Sr., Endowment Fund

Change in Description of Named Fund

Florence O. Wilson Fund

REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (cont'd)

The Ohio State University Campaign
Progress Report
@ December 31, 1987

	<u>*Campaign Expectancies</u>	<u>Current Year Campaign Receipts (July-Dec. 87)</u>	<u>Previous Years' Campaign Receipts As of June 30, 1987</u>	<u>Total</u>	<u>Campaign Goal</u>	<u>% Achieved</u>
Alumni	\$63,317,989	\$5,172,328	\$27,516,929	\$96,007,246	\$122,500,000	78
Friends	35,054,325	4,316,609	20,800,770	60,171,704	70,000,000	86
**Corporations	12,187,845	7,283,712	66,838,006	86,309,563	122,500,000	70
Foundations	<u>2,975,500</u>	<u>6,978,423</u>	<u>8,925,528</u>	<u>18,879,451</u>	<u>35,000,000</u>	54
Totals	\$113,535,659	\$23,751,072	\$124,081,233	\$261,367,964	\$350,000,000	75

*Defined as pledges and deferred commitments less payments already received.

**Corporations, businesses, associations and private agencies.

FINAL REPORT

REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)

THE OHIO STATE UNIVERSITY
OFFICE OF UNIVERSITY DEVELOPMENT
OSU FOUNDATION & DEVELOPMENT FUND RECEIPTS

July-December
1986-87 compared to 1987-88

GIFT RECEIPTS BY DONOR TYPE

	Donors				Dollars		
	July 1986-87	through December 1987-88	% Change		July 1986-87	through December 1987-88	% Change
Alumni	33,500	30,878	(8)	\$11,407,019	\$5,172,328	(55)	
Non Alumni	14,652	13,887	(5)	6,417,895	4,316,609	(33)	
Corporations	1,004	1,200	20	5,910,010	4,677,231	(21)	
Corporate Foundations	189	202	7	1,100,305	1,120,484	2	
Private Foundations	83	106	28	1,623,435	6,978,423	330	
Other	<u>428</u>	<u>733</u>	71	<u>1,546,696</u>	<u>1,485,997</u>	(4)	
TOTAL	49,856	47,006	(6)	\$28,005,360	\$23,751,072	(15)	

February 4 and 5, 1988 meeting, Board of Trustees

REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)

THE OHIO STATE UNIVERSITY RESEARCH FOUNDATION

Report - November 1987

Federal Research Contracts/Grants

\$4,498,900.00 - Department of Labor, Bureau of Labor Statistics, Washington, D.C., National Longitudinal Surveys of Labor Market Experience, Round X, Center for Human Resource Research (R. J. Olsen), 1 October 1987 through 30 September 1989. (Project 766448 - Continuation)

\$500,000.00 - National Science Foundation, Washington, D.C., Integrated Plant Propagation Facilities, Biotechnology Programs (P. E. Kolattukudy), 15 September 1987 through 14 September 1989. (Project 766455 - New)

\$199,718.00 - Department of Education, Office of Postsecondary Education, Washington, D.C., Title III -- Development and Improvement of Academic Programs, Agricultural Technical Institute - Administrative Support (D. D. Garrison and A. L. Mokma), 1 October 1987 through 30 September 1988. (Project 766437 - New)

\$195,716.00 - National Science Foundation, Washington, D.C., Mathematics Through Technology: Establish Concepts and Skills of Graphing and Functions in Grades 9 Through 12, Department of Educational Theory and Practice (A. Osborne and G. Foley) and Department of Mathematics (F. Demana and B. Waits), 1 November 1987 through 31 October 1988. (Project 766335 - New)

\$147,983.00 - Department of Agriculture, Science and Education, Washington, D.C., Studies on Monoclonal Antibodies and Viral Proteins of Infectious Bursal Disease Virus, Food Animal Health Research - OARDC (Y. M. Saif), 1 July 1987 through 30 June 1990. (Project 766477 - New)

\$144,120.00 - Department of the Army, Defense Supply Service, Washington, D.C., The Problem of Net Assessment in an Historical Context, Merston Center for Education (A. R. Millett) and Department of History (W. Murray), 1 October 1987 through 30 September 1988. (Project 765401 - Continuation)

\$138,430.00 - National Science Foundation, Washington, D.C., Glaciological and Climatological Analysis of the Past 2000 Years from Antarctic Ice Cores, Byrd Polar Research Center (E. Mosley-Thompson and L. G. Thompson), 1 July 1987 through 30 June 1988. (Project 764798 - Continuation)

\$113,950.00 - Department of Education, Office of Postsecondary Education, Washington, D.C., Patricia Roberts Harris Program, Graduate School Administration (J. D. Dickerscheid), 1 September 1987 through 31 August 1988. (Project 766461 - Continuation)

\$108,921.00 - Department of the Air Force, Air Force Systems Command, Bolling Air Force Base, D.C., Strength and Structure of $GA_{1-x}In_xAs$ Alloys, Department of Ceramic Engineering (K. T. Faber) and Department of Metallurgical Engineering (J. P. Hirth), 1 September 1987 through 31 August 1988. (Project 764977 - Continuation)

February 4 and 5, 1988 meeting, Board of Trustees

REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)

THE OHIO STATE UNIVERSITY RESEARCH FOUNDATION (contd)

Federal Research Contracts/Grants (contd)

\$73,243.00 - Department of Health and Human Services, Public Health Service, National Institutes of Health, Bethesda, Maryland, Preclinical Pharmacology Investigations of Antitumor Agents, College of Pharmacy (L. Malspeis), 1 November 1987 through 13 April 1988. (Project 765385 - Continuation)

\$70,500.00 - National Science Foundation, Washington, D.C., Low Temperature Electronic Properties of Conducting Solids, Department of Physics (J. C. Garland), 1 January 1988 through 30 June 1989. (Project 765553 - Continuation)

\$70,000.00 - National Science Foundation, Washington, D.C., The Role of Calcium in Root Growth and Gravitropism, Department of Botany (M. L. Evans), 1 November 1987 through 30 April 1989. (Project 765780 - Continuation)

\$66,000.00 - National Science Foundation, Washington, D.C., Theoretical Studies of Equilibrium and Non-Equilibrium Multi-Layer Films, Department of Physics (W. F. Saam and C. A. Ebner), 1 November 1987 through 30 April 1989. (Project 766478 - New)

\$65,000.00 - National Science Foundation, Washington, D.C., Structural Influence of Zeolites on Metals and Metal Complexes Within Its Cavities -- A Raman Spectroscopy Study, Department of Chemistry (P. K. Dutta), 1 January 1988 through 31 December 1988. (Project 764936 - Continuation)

\$50,000.00 - National Science Foundation, Washington, D.C., The Role of α -Lactalbumin in Lactose Biosynthesis, Department of Chemistry (L. J. Berliner), 1 November 1987 through 30 April 1989. (Project 766469 - New)

\$45,450.00 - Department of Education, Office of Postsecondary Education, Washington, D.C., The Ohio State University School of Public Administration Application for Grants Under the Patricia Roberts Harris Fellowship Program, School of Public Administration (A. E. Merget), 1 September 1987 through 31 August 1988. (Project 766401 - Continuation)

\$42,496.00 - Department of the Air Force, Air Force Systems Command, Bolling Air Force Base, D.C., Theory System Reliability Demonstration and Burn-in Design, Department of Statistics (S. Blumenthal), 1 November 1987 through 31 October 1988. (Project 766252 - Continuation)

\$42,121.00 - Department of Health and Human Services, Public Health Service, National Institutes of Health, Bethesda, Maryland, Genetic and Molecular Studies of RNA Splicing, Department of Molecular Genetics (P. S. Perlman), 1 December 1987 through 29 February 1988. (Project 763452 - Continuation)

\$24,232.00 - Department of Health and Human Services, Public Health Service, National Institutes of Health, Bethesda, Maryland, The Neural Control of Temperature Regulations, Department of Physiology (J. A.

February 4 and 5, 1988 meeting, Board of Trustees

REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)

THE OHIO STATE UNIVERSITY RESEARCH FOUNDATION (contd)

Federal Research Contracts/Grants (contd)

Boulant), 1 December 1987 through 29 February 1988. (Project 761187 - Continuation)

\$17,438.00 - National Science Foundation, Washington, D.C., Velocity Distributions of Suspensions of Large Food Particles During Continuous Sterilization in Holding Tubes, Department of Agricultural Engineering - OARDC and Department of Agricultural Engineering (S. K. Sastry), 1 October 1987 through 30 September 1989. (Project 766458 - New)

\$10,600.00 - National Aeronautics and Space Administration, Goddard Space Flight Center, Greenbelt, Maryland, Ultraviolet Spectroscopy of Planetary Nebulae: Cosmological Implications, Department of Astronomy (G. J. Ferland, B. M. Peterson and E. R. Capriotti), 15 December 1987 through 14 December 1988. (Project 766473 - New)

\$10,000.00 - Department of the Air Force, Air Force Systems Command, Wright-Patterson Air Force Base, Ohio, Controller Design Approaches and Evaluations, Department of Electrical Engineering (U. Ozguner and S. Yurkovich), 16 November 1987 through 4 December 1987. (Project 766464 - New)

\$8,450.00 - Department of Education, Office of Postsecondary Education, Washington, D.C., National Resource Center -- East Asia, Office of International Affairs, Department of East Asian Languages and Literatures and Department of Anthropology (C. M. Chen), 15 August 1987 through 14 August 1988. (Project 764877 - Continuation)

\$8,301.25 - International Development Cooperation Agency, Agency for International Development, Washington, D.C., The Development and Production of a Prototype Video of the NARMA Project, School of Natural Resources (R. E. Roth), 14 September 1987 through 18 September 1987. (Project 766362 - New)

\$8,000.00 - Department of the Air Force, Air Force Systems Command, Bolling Air Force Base, D.C., International Symposium on Molecular Spectroscopy, Department of Physics (K. N. Rao), 1 January 1988 through 31 December 1988. (Project 765192 - Continuation)

\$1,730.00 - Department of Transportation, National Highway Traffic Safety Administration, East Liberty, Ohio, Pedestrian Injury Reduction Concept Development -- Child Thorax, Department of Statistics (P. K. Goel), 1 October 1987 through 30 December 1987. (Project 766468 - New)

Personnel Services - Department of the Army, Army Corps of Engineers, Champaign, Illinois, Research Support in the Disciplines Related to Geographical Information Systems, Land Planning, Computer Design and Programming, Center for Mapping (J. D. Bossler), 30 September 1987 through 29 September 1988. (Project 766475 - New) (Approximate Dollar Value - \$500,000)

TOTAL - FEDERAL AWARDS

\$6,661,299.25

February 4 and 5, 1988 meeting, Board of Trustees

REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)

THE OHIO STATE UNIVERSITY RESEARCH FOUNDATION (contd)

State of Ohio Research Contracts/Grants

\$183,779.00 - State of Ohio, Board of Regents, Columbus, Ohio, Area Health Education Center (Health Services Education), College of Medicine - Administration (G. L. Trzebiatowski), 1 October 1987 through 30 September 1988. (Project 766481 - Continuation)

\$31,748.00 - State of Ohio, Department of Education, Columbus, Ohio, Evaluation of 1986-87 Sex Equity Project, Department of Educational Policy and Leadership (J. E. Sage), 1 October 1987 through 30 June 1988. (Project 766456 - New)

\$29,795.00 - State of Ohio, Department of Education, Columbus, Ohio, Labor Market Information Development, Center for Human Resource Research (H. R. Blaine) and Academic Faculty of Management and Human Resources (S. Mangum), 13 October 1987 through 30 June 1988. (Project 766276 - Continuation)

TOTAL - STATE OF OHIO AWARDS

\$ 245,322.00

Industrial Research Contracts/Grants

\$130,000.00 - Pfizer, Inc., Groton, Connecticut, Clinical Pharmacology Research Unit, Department of Pharmacology (N. Gerber), 1 October 1987 through 30 September 1988. (Project 760484 - Continuation)

\$118,902.00 - Pfizer, Inc., Groton, Connecticut, Phase I Double-Blind, Placebo-Controlled, Escalating Single and Divided Dose Pharmacokinetic and Toleration Study of Oral CP-76,593 in Normal Male Volunteers, Department of Pharmacology (N. Gerber), 1 July 1987 through 30 June 1988. (Project 765696 - Continuation)

\$81,211.00 - Burroughs Wellcome Company, Research Triangle Park, North Carolina, Evaluation of BW tPA in the Initial Lysis and Maintenance of Patency of Coronary Arteries in Patients with Acute Myocardial Infarction, Department of Internal Medicine (R. D. Magorien), 1 July 1987 through 30 June 1988. (Project 766466 - New)

\$75,000.00 - Rockwell International, Los Angeles, California, Extended Radar Cross Section Studies, Department of Electrical Engineering, ElectroScience Laboratory (L. Peters, Jr. and W. D. Burnside), 1 November 1987 through 30 September 1988. (Project 766480 - New)

\$68,390.00 - Ross Laboratories, Columbus, Ohio, Extension of Studies of Rotavirus Diarrhea in Gnotobiotics, Food Animal Health Research - OARDC (L. J. Saif), 1 August 1987 through 31 July 1988. (Project 764255 - Continuation)

\$60,756.00 - Pfizer, Inc., Groton, Connecticut, Phase I Double-Blind, Placebo-Controlled, Two-Way Crossover Comparison of Toleration and Pharmacokinetics of Single Doses of CP-57,103 in the Fed Versus Fasted State, Department of Pharmacology (N. Gerber), 1 July 1987 through 30 June 1988. (Project 765696 - Continuation)

February 4 and 5, 1988 meeting, Board of Trustees

REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)

THE OHIO STATE UNIVERSITY RESEARCH FOUNDATION (contd)

Industrial Research Contracts/Grants (contd)

\$25,000.00 - General Electric Company/RCA, Philadelphia, Pennsylvania, Center for Commercialization of Space Membership Agreement, Center for Mapping (J. D. Bossler), 1 January 1987 through 31 December 1987. (Project 766219 - Continuation)

\$17,721.00 - Pfizer, Inc., Groton, Connecticut, Phase I Double-Blind, Placebo-Controlled, Single Dose Study to Establish Toleration and Pharmacokinetics of CP-75,784, Department of Pharmacology (N. Gerber), 10 August 1987 through 9 August 1988. (Project 765696 - Continuation)

\$17,045.00 - Sandia Corporation, Albuquerque, New Mexico, The Influence of Surface Modification on Hydrogen Interaction with Metallic Surfaces, Department of Metallurgical Engineering (B. E. Wilde), 15 September 1987 through 30 September 1988. (Project 766378 - Continuation)

\$10,000.00 - Boeing Computer Services, Seattle, Washington, RAMCAD Software Development, Department of Computer and Information Science (B. Chandrasekaran), 1 November 1987 through 31 December 1987. (Project 766470 - New)

\$3,900.00 - International Clinical Laboratories, Inc., Nashville, Tennessee, Feasibility Study on the Application of the Scanning Laser Imaging Instrument for Quantitative Immunofluorescence Analysis of Biological Material, Comprehensive Cancer Center (L. D. Tomei), Department of Veterinary Pathobiology (J. R. Blakeslee), Department of Internal Medicine (M. F. Para), and College of Pharmacy (J. M. Jagadeesh), 1 March 1987 through 31 October 1987. (Project 766007 - Continuation)

\$3,500.00 - Burnes and Roe Services Corporation, Pittsburgh, Pennsylvania, Removal of Sulfur from Coal: Microbial Treatment and Analysis, Department of Chemical Engineering (D. R. Skidmore), 1 November 1987 through 31 January 1988. (Project 766459 - New)

\$487.89 - Sandoz, Inc., East Hanover, New Jersey, A Comparison of Bromocriptine and Carbidopa + Levodopa Alone and in Combination for the Treatment of De Novo Parkinson Patients, Department of Neurology (G. W. Paulson), 1 October 1985 through 30 June 1988. (Project 765138 - Continuation)

Total - Industrial Awards

\$ 611,912.89

Other Non-Federal Research Contracts/Grants

\$526,826.00 - Indonesia Government, Jakarta, Indonesia, Refresher C Programs for Faculty and Administrators of the Institut Keguruan Ilmu Pendidikan (IKIP) or Institutes for Teacher Training and Education of Indonesia, College of Education - Administration (J. J. Buffer), 21 October 1987 through 31 August 1988. (Project 766476 - New)

\$244,000.00 - Midwest Universities Consortium for International Activities, Inc., Columbus, Ohio, Burma Agricultural Production Project,

February 4 and 5, 1988 meeting, Board of Trustees

REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)

THE OHIO STATE UNIVERSITY RESEARCH FOUNDATION (contd)

Other Non-Federal Research Contracts/Grants (contd)

Office of International Programs in Agriculture (D. O. Hansen), 1 October 1987 through 31 March 1992. (Project 766452 - New)

\$183,043.00 - Medical College of Ohio, Toledo, Ohio, Area Health Education Center Program, College of Medicine - Administration (G. L. Trzebiatowski), 1 October 1987 through 30 September 1988. (Project 766405 - Continuation)

\$129,945.00 - Jessie Smith Noyes Foundation, Inc., New York, New York, Research and Training Program in Lower Input/Sustainable Agriculture, Department of Entomology (C. A. Edwards) and Department of Entomology - OARDC (B. R. Stinner), 15 December 1987 through 15 December 1990. (Project 766482 - New)

\$94,953.00 - Children's Hospital Research Foundation, Columbus, Ohio, Intestinal Transplantation in Inbred Rats, Department of Internal Medicine (P. J. Tutschka), 1 August 1987 through 31 July 1988. (Project 764924 - Continuation)

\$82,059.00 - W. K. Kellogg Foundation, Battle Creek, Michigan, Computerized Advisory Service for Horticulture (CASH), Department of Entomology - OARDC (F. R. Hall) and Cooperative Extension State Operations (H. R. Willson), 1 August 1987 through 31 July 1988. (Project 764817 - Continuation)

\$62,357.00 - The University of Alabama at Birmingham, Birmingham, Alabama, Immunoanalysis of Chemical and Physical Damage to Supercoiled DNA, Department of Radiology (A. A. Wani), 1 August 1987 through 31 January 1989. (Project 766283 - New)

\$60,063.00 - University of Missouri, Columbia, Missouri, Electrochemical Factors in Fused Salt Enhanced Carbothermic Reduction, Department of Metallurgical Engineering (G. R. St. Pierre, R. A. Rapp, Y. Sahai and W. B. Johnson), 1 October 1987 through 30 September 1988. (Project 764365 - Continuation)

\$51,652.00 - Winrock International Institute for Agricultural Development, Arlington, Virginia, Utilization of Waste Materials Generated from Fruit and Vegetable Processing, Department of Horticulture - OARDC and Department of Horticulture (J. P. Dalmasso, K. L. Wiese and A. R. Miller), 27 October 1987 through 26 February 1988. (Project 766462 - New)

\$39,150.00 - Cancer Therapy and Research Foundation of South Texas, San Antonio, Texas, SWOG Study 8501, Intraperitoneal Cis-Platinum/Intravenous Cys-Platinum/Intravenous Cyclophosphamide Versus Intravenous Cis-Platinum/Intravenous Cyclophosphamide in Patients with Non-Measurable (Optimal) Disease, Stage III Ovarian Cancer, Department of Pathology (R. O'Toole), 1 October 1987 through 30 September 1990. (Project 765855 - Continuation)

February 4 and 5, 1988 meeting, Board of Trustees

REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)

THE OHIO STATE UNIVERSITY RESEARCH FOUNDATION (contd)

Other Non-Federal Research Contracts/Grants (contd)

\$30,445.00 - American Board of Internal Medicine, Inc., Philadelphia, Pennsylvania, Evaluating the Humanistic Behavior of Internal Medicine Residents, Department of Internal Medicine (E. L. Mazzaferri and P. S. Butterfield), 1 November 1987 through 30 November 1988. (Project 766479 - New)

\$28,350.00 - Upper Arlington City Schools, Upper Arlington, Ohio, Career Internship Program with Upper Arlington Schools, Department of Educational Theory and Practice (J. J. Quaranta), 1 September 1987 through 7 June 1988. (Project 766457 - Continuation)

\$22,484.00 - University Space Research Association, Houston, Texas, USRA Aeronautics Pilot Program, Department of Aeronautical and Astronautical Engineering (G. M. Gregorek), 15 August 1987 through 15 June 1988. (Project 766447 - Continuation)

\$17,348.00 - University Affiliated Cincinnati Center for Developmental Disorders, Cincinnati, Ohio, Prevention Continuing Education in Rural Areas, Nisonger Center (S. R. Schroeder), 1 January 1987 through 31 December 1987. (Project 764528 - Continuation)

\$12,000.00 - Central Arizona College, Coolidge, Arizona; City College of Chicago, Chicago, Illinois; Atlantic Community College, Mays Landing, New Jersey; Alamo Community College District, San Antonio, Texas; Champlain College, Burlington, Vermont; and Walla Walla Community College, Walla Walla, Washington, National Alliance of Community and Technical Colleges, The National Center for Research in Vocational Education (R. D. Ryan), 1 July 1987 through 30 June 1988. (Project 766171 - Continuation)

\$11,763.00 - Columbus State Community College, Columbus, Ohio, Intramural and Recreation Internship Program, School of Health, Physical Education and Recreation (W. A. Sutton), 1 July 1987 through 30 June 1988. (Project 766465 - Continuation)

\$10,000.00 - Corrugated Plastic Tubing Association, Columbus, Ohio, Center for Commercialization of Space Membership Agreement, Center for Mapping (J. D. Bossler), 15 July 1987 through 14 July 1988. (Project 766219 - Continuation)

\$8,400.00 - Children's Hospital Research Foundation, Columbus, Ohio, Binocular Vision and Strabismus in Infants and Children, College of Pharmacy (J. M. Jagadeesh), 30 September 1987 through 29 September 1988. (Project 765102 - Continuation)

\$5,000.00 - Illinois State Board of Education, Springfield, Illinois; Kansas State Department of Education, Topeka, Kansas; and State of New Jersey, Department of Education, Trenton, New Jersey, National Entrepreneurship Education Consortium, The National Center for Research in Vocational Education (R. D. Ryan), 1 July 1987 through 30 June 1988. (Project 766207 - Continuation)

February 4 and 5, 1988 meeting, Board of Trustees

REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)

THE OHIO STATE UNIVERSITY RESEARCH FOUNDATION (contd)

Other Non-Federal Research Contracts/Grants (contd)

\$4,610.00 - Educational Testing Service, Princeton, New Jersey, Market Analysis for Educational Testing Service, The National Center for Research in Vocational Education (R. D. Ryan), 15 June 1987 through 31 October 1987. (Project 766463 - New)

\$4,100.00 - American College of Veterinary Surgeons, Champaign, Illinois, The Evaluation of In Vitro Cultured Equine Epidermal Cells as Autografts and Allografts, Department of Veterinary Clinical Sciences (J. T. Robertson), 1 October 1987 through 30 September 1988. (Project 766471 - New)

\$2,500.00 - International Center for Industry, Labor and Rehabilitation, Dublin, Ohio, Identification of Risk Factors for Work Disability in Workers over 45 Years of Age, Department of Preventive Medicine (M. L. Moeschberger), 1 August 1987 through 31 January 1988. (Project 766467 - Continuation)

\$2,000.00 - Ohio Safety Belt Network, Inc., Columbus, Ohio, Innovative Approaches to Increasing Safety Belt Usage at The Ohio State University, School of Health, Physical Education and Recreation (B. K. Koch), 23 October 1987 through 31 May 1988. (Project 766474 - New)

\$1,841.50 - Sandusky County Department of Human Services, Fremont, Ohio, Single-Parent Newsletter, Cooperative Extension Field Operations (S. L. Mader), 29 October 1987 through 31 March 1988. (Project 766449 - New)

\$686.00 - National Academic Advising Association, University Park, Pennsylvania, Ego-Identity Status of Undecided Students and Their Perceived Advising Needs, University College Administration (M. W. Curran and V. Gordon), 1 October 1987 through 30 September 1988. (Project 766460 - New)

\$500.00 - South-Western Publishing Company, Cincinnati, Ohio, National Consortium of State Career Guidance Supervisors, The National Center for Research in Vocational Education (R. D. Ryan), 1 July 1987 through 30 June 1988. (Project 766331 - Continuation)

TOTAL - OTHER NON-FEDERAL AWARDS

\$1,636,075.50

ENGINEERING EXPERIMENT STATION

State Sponsored Research and Development

\$99,952.00 - Thomas A. Edison Partnership Program, Columbus, OH, and CeramPhysics, Inc., Westerville, OH, "Cellular Structure Oxygen Sensors," Department of Ceramic Engineering, 1 January 1987 through 31 December 1988. (312426)

Industrial and Other Sponsored Research and Development

\$50,425.00 - from 34 sponsors of 40 development projects under the direction of five research areas of the College of Engineering.

February 4 and 5, 1988 meeting, Board of Trustees

REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)

ENGINEERING EXPERIMENT STATION (contd)

Industrial and Other Sponsored Research and Development (contd)

\$50,015.00 - McDonnell Douglas Corporation, St. Louis, MO, "Analysis of Electromagnetic Scattering from Electrically Large Ducts/Cavities," Department of Electrical Engineering, 21 October 1987 through 30 September 1988. (312436)

\$48,432.00 - U.S. West Advanced Technologies, Englewood, CO, "Performance Analysis of Packet Radio Networks," Department of Electrical Engineering, 1 October 1987 through 30 September 1988. (529742)

\$33,400.00 - Lockheed California Co., Sunland, CA, "Wind Tunnel Testing," Department of Aeronautical and Astronautical Engineering, 11 September 1987 through 30 June 1988. (312435)

\$30,924.00 - Additional budget from Electric Power Research Institute (EPRI), Palo Alto, CA, "Influence of Hydrogen on PWSCC of Alloy 600 Tubing," Department of Metallurgical Engineering, 24 April 1987 through 28 February 1988. (312412, Ext. 1)

\$20,000.00 - General Electric, Cincinnati, OH, "Joining Study of Titanium Aluminides," Department of Welding Engineering, 28 October 1987 through 15 December 1987. (312437)

\$12,600.00 - City of Columbus, Columbus, OH, "Columbus Department of Development Internships," Department of City and Regional Planning, 1 October 1987 through 30 June 1988. (529743)

\$9,000.00 - Additional budget from Scientific Atlanta, Norcross, GA, "Research, Development and Measurement of a Target Support Pylon Terminator," Department of Electrical Engineering, 15 June 1987 through 14 November 1987. (312419, Ext. 1)

TOTAL - INDUSTRIAL AND OTHER SPONSORED RESEARCH \$ 254,796.00

THE OHIO STATE UNIVERSITY DEVELOPMENT FUND

Establishment of Named Funds

The Steve R. and Sarah E. O'Donnell
Scientific Supercomputing Fund

The Steve R. and Sarah E. O'Donnell Scientific Supercomputing Fund was established February 5, 1988, by the Board of Trustees of The Ohio State University, with a gift to The Ohio State University Development Fund from Steve R. O'Donnell (B.E.E. '62, M.S. Electrical Engineering '63) and Sarah E. O'Donnell of Westerville, Ohio.

All gifts are to be invested in the University's Permanent Endowment Fund, under the rules and regulations adopted by the Board of Trustees of The Ohio State University, with the right to invest and reinvest as occasion dictates.

February 4 and 5, 1988 meeting, Board of Trustees

REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)

THE OHIO STATE UNIVERSITY DEVELOPMENT FUND (contd)

Establishment of Named Funds (contd)

The Steve R. and Sarah E. O'Donnell
Scientific Supercomputing Fund (contd)

The annual income shall be used to facilitate the use of supercomputers for research by The Ohio State University faculty, for example, by providing computer graphics work stations for faculty access to the supercomputer at the Ohio Supercomputer Center. The Vice President for Research and Graduate Studies is authorized to withdraw no more than one-third of the original principal amount over a 12-month period, if necessary. The Vice President for Research and Graduate Studies will have sole authority to authorize expenditures from the fund.

It is the desire of the donors that this fund should benefit the University in perpetuity. If the need for this fund should cease to exist or so diminish as to provide unused income, then another use shall be designated by the Board of Trustees in consultation with the appropriate college dean, department chairperson, or program administrative officer in order to carry out the desire of the donors.

The L. Edwin Smart Economics Symposium Fund

The L. Edwin Smart Economics Symposium Fund was established February 5, 1988, by the Board of Trustees of The Ohio State University, with gifts to The Ohio State University Development Fund from L. Edwin Smart, Jr., of New York as a memorial to his father, L. Edwin Smart, Sr. (B.A. '16, M.A. '23, Ph.D. '30), Professor of Economics at The Ohio State University from 1921 to 1962, and in appreciation of his own secondary education at the then University School of The Ohio State University, which he attended from 1935 to 1941. Mr. Smart, Jr., is chairman of the executive committee of TW Services, Inc., and was formerly chairman of the board of that company and its predecessors, Transworld Corporation and Trans World Airlines. He also serves as Director of Continental Corporation, The New York Stock Exchange and Sonat, Inc.

All gifts are to be invested in the University's Permanent Endowment Fund, under the rules and regulations adopted by the Board of Trustees of The Ohio State University, with the right to invest and reinvest as occasion dictates.

The annual income shall be used as seed money to plan and host the Smart Symposium in Economics. The week-long symposium will be held yearly and will be of a character to gather internationally known scholars in the study of economics and related fields.

It is the desire of the donor that this fund should benefit the University in perpetuity as a memorial to his father and that all proceeds from this fund shall be used in his honor. If the need for this fund should cease to exist or so diminish as to provide unused income, then another use shall be designated by the Board of Trustees in consultation with the appropriate college dean, department chairperson, or program administrative officer in order to carry out the desire of the donor.

February 4 and 5, 1988 meeting, Board of Trustees

REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)

THE OHIO STATE UNIVERSITY DEVELOPMENT FUND (contd)

Establishment of Named Funds (contd)

Unrestricted General Library Endowment

The Unrestricted General Library Endowment was established February 5, 1988, by the Board of Trustees of The Ohio State University with gifts through unrestricted donations to The Ohio State University Development Fund designated for support of The Ohio State University Libraries.

All gifts are to be invested in the University's Permanent Endowment Fund, under the rules and regulations adopted by the Board of Trustees of The Ohio State University, with the right to invest and reinvest as occasion dictates.

The annual income shall be used for such items as books, journals, personnel, supplies, equipment or for any activities related to preservation of library materials, as determined by the Director of The Ohio State University Libraries. At the end of any fiscal year in which there is a balance in income remaining, this balance shall be credited to the principal.

It is the desire of the donors that this fund should benefit the University in perpetuity. If the need for this fund should cease to exist or so diminish as to provide unused income, then another use shall be designated by the Board of Trustees in consultation with the appropriate college administrative officer who is then responsible for the University Libraries.

The Harriet L. Reynolds Endowment Fund

The Harriet L. Reynolds Endowment Fund was established February 5, 1988, by the Board of Trustees of The Ohio State University with gifts to The Ohio State University Development Fund from the estate of Harriet L. Reynolds (Ohio State Head Coach - Women's Field Hockey 1973-1987), family members, athletic department associates, and friends in honor and memory of Coach Harriet Reynolds.

All gifts are to be invested in the University's Permanent Endowment Fund, under the rules and regulations adopted by the Board of Trustees of The Ohio State University, with the right to invest and reinvest as occasion dictates.

The annual income shall be used to provide post-baccalaureate scholarship assistance at The Ohio State University for a former member of an Ohio State women's intercollegiate varsity sports team or, as a second priority, to provide added funds to enhance Ohio State's women's field hockey program. The selection of scholarship recipients will be made by the Associate Athletic Director in charge of the Women's Intercollegiate Sports Program, a representative for the Reynolds family, and the Department of Physical Education in the School of Health, Physical Education and Recreation in cooperation with the Director of Athletics and the University Committee on Student Financial Aid. Enhancement funds

February 4 and 5, 1988 meeting, Board of Trustees

REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)

THE OHIO STATE UNIVERSITY DEVELOPMENT FUND (contd)

Establishment of Named Funds (contd)

The Harriet L. Reynolds Endowment Fund (contd)

will be approved by the Director of Athletics. Any unused income each year may be added to the principal.

It is the desire of the donors that this fund should benefit the University in perpetuity. If the need for this fund should cease to exist or so diminish as to provide unused income, then the income may be used as determined by the Board of Trustees with preference being given to recommendations from the appropriate administrative official of the University who is then directly responsible for the intercollegiate athletics program at The Ohio State University.

The Helene L. & Clement F. Frymutter Memorial Endowment Fund

The Helene L. & Clement F. Frymutter Memorial Endowment Fund was established February 5, 1988, by the Board of Trustees of The Ohio State University with gifts to The Ohio State University Development Fund from Charisann Froberg, Granville, Ohio.

All gifts are to be invested in the University's Permanent Endowment Fund, under the rules and regulations adopted by the Board of Trustees of The Ohio State University, with the right to invest and reinvest as occasion dictates.

The annual income shall be used to provide scholarships for students attending The Ohio State University at Newark who have documented their financial need and are likely to be academically successful. Scholarship recipients shall be chosen by the Dean of The Ohio State University Newark Campus, in consultation with the University Committee on Student Financial Aid.

It is the desire of the donor that this fund should benefit the University in perpetuity. If the need for this fund should cease to exist or so diminish as to provide unused income, then another use shall be designated by the Board of Trustees in consultation with the person then responsible for The Ohio State University Newark Campus.

**The Jonathan David Micha Pediatric
Allergy and Asthma Research Fund**

The Jonathan David Micha Pediatric Allergy and Asthma Research Fund was established February 5, 1988, by the Board of Trustees of The Ohio State University with gifts to the University Development Fund from family and friends in memory of Jonathan David Micha of Westerville, Ohio.

All gifts are to be invested in the University's Permanent Endowment Fund, under the rules and regulations adopted by the Board of Trustees of The Ohio State University, with the right to invest and reinvest as occasion dictates.

February 4 and 5, 1988 meeting, Board of Trustees

REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)

THE OHIO STATE UNIVERSITY DEVELOPMENT FUND (contd)

Establishment of Named Funds (contd)

**The Jonathan David Micha Pediatric
Allergy and Asthma Research Fund (contd)**

The annual income from this fund shall be used for the research, treatment and cure of pediatric asthma and allergy conditions. The requisitions for funds are to be approved by the Dean of the College of Medicine in consultation with the leading faculty and researchers in the area of pediatric allergy and asthma.

It is the desire of the donors that this fund should benefit the University in perpetuity. If the need for this fund should cease to exist or so diminish as to provide unused income, then the income may be used for any purpose whatsoever as determined by the Board of Trustees with preference being given to recommendations from the appropriate administrative official of the University then directly responsible for the study and research of other pediatric diseases in the College of Medicine.

Change of Name and Description of Named Funds

**The Dorothy McAllister and George L. Lewis
Memorial Scholarship Fund**

The Dorothy and George L. Lewis Scholarship Fund was established February 7, 1986, by the Board of Trustees of The Ohio State University with gifts to The Ohio State University Development Fund from George L. Lewis, Professor Emeritus of Educational Theory and Practice, in memory of his wife; and gifts from sons Michael (B.S.Ed. '65, M.S., M.B.A. '82), Terry (M.A., Speech/Communication '72) and Patrick (B.M.E. '79, M.A., Music '84), and friends in honor of George Lewis and in memory of Dorothy Lewis. The name and description were changed February 5, 1988.

All gifts are to be invested in the University's Permanent Endowment Fund, under the rules and regulations adopted by the Board of Trustees of The Ohio State University, with the right to invest and reinvest as occasion dictates.

The annual income shall be used to provide one or more scholarships for undergraduate students in either Drama Education, Speech Education or Music Education who have declared their major and who have demonstrated academic ability (3.0 or above average). The selection is to be made by the College of Education Scholarship Committee upon the recommendation of a committee representing Drama Education, Speech Education, Music Education and the College, and with the approval of the University Committee on Student Financial Aid.

Should the need for this fund cease to exist or so diminish as to provide unused income, then the income may be used for any purpose whatsoever as determined by the Board of Trustees, with preference being given to those responsible for drama, speech and music education.

February 4 and 5, 1988 meeting, Board of Trustees

REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)

THE OHIO STATE UNIVERSITY DEVELOPMENT FUND (contd)

Change of Name and Description of Named Funds (contd)

**The Harry and Esther Sonkin Family
Scholarship for International Understanding and Peace**

The Harry and Carl Sonkin Memorial Award for Peace and International Understanding was established March 2, 1984, by the Board of Trustees of The Ohio State University with gifts to The Ohio State University Development Fund from friends and families of Harry and Carl Sonkin. The name was changed to the Harry and Carl Sonkin Memorial Award for International Understanding and Peace, September 7, 1984. The name and description were further changed February 5, 1988.

All gifts are to be invested in the University's Permanent Endowment Fund, under the rules and regulations adopted by the Board of Trustees of The Ohio State University, with the right to invest and reinvest as occasion dictates.

The annual income shall be used to provide one or more scholarships for a deserving graduate student(s) for research or study abroad that contributes to the pursuit of international understanding and peace. The graduate student(s) must be enrolled at The Ohio State University in an academic degree program with a focus on international problems. He or she may be in any department or interdisciplinary field. The graduate student(s) must have demonstrated excellence in scholarship and an aptitude for the program of study or research to be pursued under the Sonkin Scholarship. The graduate student(s) must intend to engage in research either at The Ohio State University or outside the United States that demonstrably is concerned with enhancing the understanding of peoples in different cultures, improving the quality of social justice among nations, or exploring methods for international conflict avoidance or conflict resolution.

Selection of the recipient(s) is to be made by the Director of the University Center for International Studies in cooperation with the Dean of the College of Humanities, the Director of the Mershon Center or their representatives, and the University Committee on Student Financial Aid. The criteria for the selection of recipients are subject to review by members of the Sonkin family and the concerned Ohio State University administrators.

Should the need for this fund cease to exist or so diminish as to provide unused income, then the income may be used for any purposes whatsoever as determined by the Board of Trustees with preference being given to recommendations from the appropriate administrative official of the University who is then directly responsible for academic programs in international studies.

February 4 and 5, 1988 meeting, Board of Trustees

REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)

THE OHIO STATE UNIVERSITY RESEARCH FOUNDATION

Report - December 1987

Federal Research Contracts/Grants

\$365,653.00 - Department of Health and Human Services, Public Health Service, National Institutes of Health, Bethesda, Maryland, General Clinical Research Center, College of Medicine - Administration (M. Tzagournis) and Department of Internal Medicine (W. Malarkey), 1 December 1987 through 29 February 1988. (Project 761196 - Continuation)

\$300,997.00 - Department of Health and Human Services, Public Health Service, National Institutes of Health, Bethesda, Maryland, Phase I and Clinical Pharmacokinetic Studies of Anticancer Agents, Comprehensive Cancer Center and Department of Internal Medicine (M. R. Grever) and College of Pharmacy (L. Malspeis), 1 December 1987 through 30 November 1988. (Project 764860 - Continuation)

\$252,424.00 - Department of Health and Human Services, Public Health Service, National Institutes of Health, Bethesda, Maryland, Development of Animal Models Infected with Retroviruses for Testing of Antiviral Agents, Department of Veterinary Pathobiology (L. E. Mathes, R. G. Olsen and M. J. Tarr), 16 December 1985 through 15 December 1990. (Project 765188 - Continuation)

\$250,000.00 - Department of the Air Force, Air Force Systems Command, Griffiss Air Force Base, New York, Explanation in Problem-Solving and Planning Systems, Department of Computer and Information Science (B. Chandrasekaran), 1 October 1987 through 30 September 1988. (Project 764562 - Continuation)

\$223,300.00 - Department of Transportation, Federal Aviation Administration, Washington, D.C., Airway Science Grant, Department of Aviation (S. Weislogel), 1 December 1987 through 31 December 1988. (Project 766489 - New)

\$213,593.00 - Department of Labor, Bureau of Labor Statistics, Washington, D.C., National Longitudinal Surveys of Labor Market Experience, Center for Human Resource Research (R. J. Olsen), 1 July 1986 through 30 September 1988. (Project 765719 - Continuation)

\$181,313.00 - Department of Health and Human Services, Public Health Service, National Institutes of Health, Bethesda, Maryland, Otitis Media with Effusion: Human Studies, Department of Otolaryngology (D. J. Lim), 1 December 1987 through 29 February 1988. (Project 760043 - Continuation)

\$150,000.00 - Department of Health and Human Services, Office of Human Development Services, Washington, D.C., Child Abuse and Neglect Interdisciplinary Training Program, Department of Educational Policy and Leadership (L. L. Cunningham), 1 September 1987 through 31 August 1988. (Project 766454 - New)

\$114,344.00 - Department of Health and Human Services, Public Health Service, Health Resources and Services Administration, Rockville, Maryland, Advanced Educational Program in General Dentistry, Community

February 4 and 5, 1988 meeting, Board of Trustees

REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)

THE OHIO STATE UNIVERSITY RESEARCH FOUNDATION (contd)

Federal Research Contracts/Grants (contd)

Dentistry (L. P. Diorio), 1 July 1988 through 30 June 1989. (Project 765454 - Continuation)

\$103,200.00 - National Science Foundation, Washington, D.C., Kinetics and Spectroscopy of Reactive Intermediates, Department of Chemistry (M. S. Platz), 1 December 1987 through 31 May 1989. (Project 765125 - Continuation)

\$85,000.00 - National Aeronautics and Space Administration, Lewis Research Center, Cleveland, Ohio, Engineering Calculations for Communications Satellite Systems Planning, Department of Electrical Engineering, ElectroScience Laboratory (E. K. Walton) and Department of Industrial and Systems Engineering (C. H. Reilly), 15 December 1987 through 30 June 1988. (Project 762552 - Continuation)

\$74,999.00 - National Aeronautics and Space Administration, Lewis Research Center, Cleveland, Ohio, The Effects of Magnetic Nozzle Configurations on Plasma Thrusters, Department of Aeronautical and Astronautical Engineering (T. M. York), 5 December 1987 through 4 December 1988. (Project 766488 - New)

\$72,356.00 - National Science Foundation, Washington, D.C., Anodic Oxidation Studies and Their Applications to Organic Synthesis, Department of Chemistry (J. S. Swenton), 1 January 1988 through 30 June 1989. (Project 766494 - New)

\$64,341.00 - Department of Transportation, National Highway Traffic Safety Administration, West Liberty, Ohio, Support of Defects Investigations, Department of Mechanical Engineering (D. A. Guenther), 16 November 1987 through 15 November 1988. (Project 765180 - Continuation)

\$58,090.00 - Department of Health and Human Services, Public Health Service, National Institutes of Health, Bethesda, Maryland, Oxidate PMN/Periodontium Interaction in Oral Disease, Diagnostic Services (S. R. Mallery and G. M. Allen) and Department of Physiological Chemistry (A. J. Merola), 1 December 1987 through 30 November 1988. (Project 765142 - Continuation)

\$54,905.00 - Department of Health and Human Services, Public Health Service, National Institutes of Health, Bethesda, Maryland, Hypothalamic Neuronal Sensitivity in Pregnant WKY/SHR Rats, Department of Physiology (J. A. Boulant and D. Christenson), 1 December 1987 through 30 November 1988. (Project 765130 - Continuation)

\$50,000.00 - National Science Foundation, Washington, D.C., Studies of Petrified Paleozoic Fungi, Department of Botany (T. N. Taylor), 1 February 1988 through 31 July 1989. (Project 765204 - Continuation)

\$49,809.00 - Department of the Navy, Office of Naval Research, Arlington, Virginia, Studies of the Nonlinear Dynamics of Fluid System, Department of Physics (C. D. Anderreck), 1 December 1987 through 30 November 1988. (Project 765156 - Continuation)

February 4 and 5, 1988 meeting, Board of Trustees

REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)

THE OHIO STATE UNIVERSITY RESEARCH FOUNDATION (contd)

Federal Research Contracts/Grants (contd)

\$47,000.00 - National Aeronautics and Space Administration, Lewis Research Center, Cleveland, Ohio, An Experimental Study of Shock-Boundary Layer Interaction in Hypersonic Flow, Department of Aeronautical and Astronautical Engineering (J. D. Lee and M. B. Bragg), 5 December 1987 through 15 March 1988. (Project 765240 - Continuation)

\$45,000.00 - National Aeronautics and Space Administration, Washington, D.C., Cellular Polarity and Interactions in Plant Gravitropism, Department of Botany (F. D. Sack), 15 December 1987 through 14 December 1988. (Project 764883 - Continuation)

\$44,286.00 - International Development Cooperation Agency, Agency for International Development, Washington, D.C., Environmental Monitoring and Education to Natural Resources Management, Department of Agronomy - OARDC and Department of Agronomy (T. J. Logan) and Department of Natural Resources - OARDC and School of Natural Resources (R. E. Roth), 11 December 1987 through 31 July 1988. (Project 766499 - New)

\$42,750.00 - Department of Health and Human Services, Public Health Service, National Institutes of Health, Bethesda, Maryland, Hypocholesterolemic Agents: Stereochemical Studies, College of Pharmacy (D. T. Witiak and D. R. Feller) and Department of Pathology (H. A. I. Newman), 1 December 1987 through 29 February 1988. (Project 764517 - Continuation)

\$39,891.00 - Department of Health and Human Services, Public Health Service, National Institutes of Health, Bethesda, Maryland, Interaction of DNA Topoisomerases with Chromatin, Department of Molecular Genetics (M. T. Muller), 1 January 1988 through 31 March 1988. (Project 763392 - Continuation)

\$37,000.00 - National Science Foundation, Washington, D.C., Molecular Beam Reactions Involving Metal Hydroxides and Hydrides, Department of Chemistry (J. M. Parson), 1 December 1987 through 31 May 1989. (Project 765988 - Continuation)

\$33,700.00 - National Science Foundation, Washington, D.C., Collaborative Research: Systematics, Paleogeology, and Extinction of Late Osagean Crinoids from Iowa, Illinois, and Missouri, Department of Geology and Mineralogy (W. I. Ausich), 1 December 1987 through 31 May 1989. (Project 766421 - New)

\$31,294.00 - Department of the Air Force, Air Force Systems Command, Wright-Patterson Air Force Base, Ohio, Heat Transfer and Fluid Friction on Rough Turbine Blades, Department of Mechanical Engineering (L. A. Kennedy), 1 October 1987 through 30 September 1988. (Project 765354 - Continuation)

\$30,000.00 - National Aeronautics and Space Administration, Lewis Research Center, Cleveland, Ohio, Modeling of Gear Dynamics, Housing Noise, and Transmissibility of a NASA Spur Gear Test Facility, Department

February 4 and 5, 1988 meeting, Board of Trustees

REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)

THE OHIO STATE UNIVERSITY RESEARCH FOUNDATION (contd)

Federal Research Contracts/Grants (contd)

of Mechanical Engineering (D. R. Houser and R. Singh), 10 January 1987 through 9 June 1988. (Project 765863 - Continuation)

\$27,028.00 - Department of Health and Human Services, Public Health Service, National Institutes of Health, Bethesda, Maryland, Regulation of the Gene Expression in Neurospora, Department of Biochemistry (G. A. Marzluf), 1 January 1988 through 31 March 1988. (Project 760578 - Continuation)

\$25,396.00 - Department of Health and Human Services, Public Health Service, National Institutes of Health, Bethesda, Maryland, Biomimetic Metal Complexes of Macrocyclic Ligands, Department of Chemistry (D. H. Busch), 1 December 1987 through 29 February 1988. (Project 761501 - Continuation)

\$25,000.00 - National Aeronautics and Space Administration, Lewis Research Center, Cleveland, Ohio, Experimental Study of Organized Structures in a Supersonic Shear Layer, Department of Mechanical Engineering (M. Samimy), 28 February 1988 through 27 February 1989. (Project 765794 - Continuation)

\$24,802.00 - Department of Health and Human Services, Public Health Service, Alcohol, Drug Abuse, and Mental Health Administration, Rockville, Maryland, Development of Combinational Neuroanatomical EEG/Imaging, Department of Psychiatry (M. W. Torello), 1 December 1987 through 30 November 1988. (Project 766506 - New)

\$20,668.00 - Department of Health and Human Services, Public Health Service, National Institutes of Health, Bethesda, Maryland, A Study of DNA Intercalating Aromatic Amino Azides, Department of Chemistry (M. S. Platz), 1 December 1987 through 29 February 1988. (Project 765804 - Continuation)

\$20,000.00 - Department of Commerce, National Bureau of Standards, Gaithersburg, Maryland, Studies of Grain-Boundary Interfaces in Ceramics, Department of Metallurgical Engineering (R. H. Wagoner), 29 October 1987 through 29 February 1988. (Project 766501 - Continuation)

\$15,892.00 - Department of Health and Human Services, Public Health Service, National Institutes of Health, Bethesda, Maryland, Multiple Hydrogen Bonding-Nucleic Acid Bases, Department of Chemistry (J. Hine and D. W. Meek), 1 December 1987 through 29 February 1988. (Project 763904 - Continuation)

\$11,996.00 - Department of the Army, Military Entrance Processing Command, Fort Sheridan, Illinois, The ASVAB and Related Training of Test Specialists, The National Center for Research in Vocational Education (R. D. Ryan), 5 January 1987 through 30 April 1988. (Project 765626 - Continuation)

\$11,918.00 - Department of Health and Human Services, Public Health Service, National Institutes of Health, Bethesda, Maryland, Luteal

February 4 and 5, 1988 meeting, Board of Trustees

REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)

THE OHIO STATE UNIVERSITY RESEARCH FOUNDATION (contd)

Federal Research Contracts/Grants (contd)

Prostaglandins in Primate Early Pregnancy, Department of Dairy Science - OARDC and Department of Dairy Science (J. S. Ottobre), 1 December 1987 through 29 February 1988. (Project 765111 - Continuation)

\$10,957.00 - Department of Health and Human Services, Public Health Service, National Institutes of Health, Bethesda, Maryland, Comparative Aspects of Peripheral Lung Mechanics, Department of Veterinary Physiology and Pharmacology (L. E. Olson), 1 December 1987 through 29 February 1988. (Project 765821 - Continuation)

TOTAL - FEDERAL AWARDS \$3,208,902.00

State of Ohio Research Contracts/Grants

\$44,100.00 - State of Ohio, Department of Commerce, Columbus, Ohio, Center for Real Estate Education and Research, College of Business - Administration (R. L. Racster), 1 January 1988 through 31 December 1988. (Project 766511 - Continuation)

\$6,650.00 - State of Ohio, Department of Health, Columbus, Ohio, Neonatal Intensive Care Unit Hearing Screening, Nisonger Center (P. Niswander), 1 October 1987 through 30 September 1988. (Project 765853 - Continuation)

\$4,333.00 - State of Ohio, Ohio Arts Council/Ohio Humanities Council Joint Program, Columbus, Ohio, The Green Table -- A Dance Masterpiece and Its Time, Department of Dance (O. Blum), 1 December 1987 through 30 June 1988. (Project 766487 - New)

\$3,924.00 - State of Ohio, Industrial Commission of Ohio, Columbus, Ohio, Graduate Student Internship, Department of Education Services and Research (D. J. Tosi and P. S. Wise), 1 October 1987 through 31 December 1987. (Project 766498 - Continuation)

\$3,660.00 - State of Ohio, Ohio Arts Council, Columbus, Ohio, Hispanic Awareness Week -- The Ohio State University, Office of Student Life (C. Alvarez-Breckenridge), 1 September 1987 through 30 May 1988. (Project 766486 - New)

\$1,100.00 - State of Ohio, Ohio Arts Council, Columbus, Ohio, Columbus Living Theatre, Department of Theatre (J. Reilly), 3 November 1987 through 30 November 1987. (Project 766493 - New)

TOTAL - STATE OF OHIO AWARDS \$ 63,767.00

Industrial Research Contracts/Grants

\$119,466.00 - Martin Marietta Corporation, Oak Ridge, Tennessee, Pack Cementation Coating of Iron-Base Alloys, Department of Metallurgical Engineering (R. A. Rapp), 1 November 1987 through 30 November 1988. (Project 766509 - New)

February 4 and 5, 1988 meeting, Board of Trustees

REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)

THE OHIO STATE UNIVERSITY RESEARCH FOUNDATION (contd)

Industrial Research Contracts/Grants (contd)

\$92,926.00 - American Biosystems, Inc., Marine on St. Croix, Minnesota, Development of an Antifertility Vaccine for Veterinary Applications, Department of Obstetrics and Gynecology (V. C. Stevens), 1 March 1988 through 28 February 1989. (Project 765957 - Continuation)

\$65,000.00 - Lederle Laboratories, Pearl River, New York, Cefixime Versus Cefaclor in Lower Respiratory Tract Infections, Department of Internal Medicine (J. F. Plouffe), 1 September 1987 through 31 August 1988. (Project 766508 - New)

\$49,700.00 - Freightliner Corporation, Charlotte, North Carolina, The Conduct of Focused Research and the Consequent Development of a Conceptual Cab Interior System for an Advanced Class 8 Truck, Department of Industrial Design (R. F. Butter), 1 July 1987 through 30 June 1988. (Project 766275 - New)

\$29,698.00 - HPM Corporation, Marion, Ohio, Training Needs Assessment and Training Video Development -- Phase I, College of Education - Administration (J. J. Buffer), 15 December 1987 through 30 June 1988. (Project 766515 - New)

\$29,606.00 - Sandoz, Inc., East Hanover, New Jersey, Parlodel 4-1: A Comparison of Bromocriptine and Carbidopa + Levodopa Alone or in Combination for the Treatment of De Novo Parkinson's Patients, Department of Neurology (G. W. Paulson), 1 December 1987 through 30 November 1988. (Project 765138 - Continuation)

\$14,886.00 - Resource International Incorporated, Columbus, Ohio, Composite Material Tester, Department of Civil Engineering (R. L. Sierakowski and S. Chaturvedi), 7 August 1987 through 31 January 1988. (Project 766503 - New)

\$14,666.00 - Sandoz, Inc., East Hanover, New Jersey, The Effect of SMS 201-995 on Intestinal Electrolyte Secretion in Rats, Department of Internal Medicine (T. S. Gaginella), 1 October 1987 through 30 September 1988. (Project 766483 - New)

\$9,870.00 - E. R. Squibb & Sons, Princeton, New Jersey, Safety and Efficacy of Nystatin Vaginal Suppositories Compared to Clotrimazole and Placebo, College of Pharmacy (J. A. Visconti) and University Health Service (D. I. Charles), 1 April 1987 through 31 December 1988. (Project 766065 - New)

\$5,000.00 - Adria Laboratories, Dublin, Ohio, Effects of ADR-847 and ADR-851 on Intestinal Electrolyte Transport In Vitro, Department of Internal Medicine (T. S. Gaginella), 17 August 1987 through 16 August 1988. (Project 766491 - New)

\$4,350.00 - Advanced Genetic Sciences, Inc., Oakland, California, Various Monoclonal Antibodies Consumers, Department of Microbiology (B. S. Zwilling), 1 September 1987 through 31 August 1988. (Project 766485 - New)

February 4 and 5, 1988 meeting, Board of Trustees

REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)

THE OHIO STATE UNIVERSITY RESEARCH FOUNDATION (contd)

Industrial Research Contracts/Grants (contd)

\$4,290.00 - G. D. Searle & Company, Inc., Skokie, Illinois, Various Monoclonal Antibodies Consumers, Department of Microbiology (B. S. Zwilling), 1 September 1987 through 31 August 1988. (Project 766485 - New)

\$3,600.00 - Bank One, Columbus, Ohio, Laser Printer Operation and Training Videotape, College of Education - Administration (J. J. Buffer), 29 October 1987 through 29 February 1988. (Project 766504 - New)

\$3,338.42 - Boeing Company, Seattle, Washington, Compact Range Performance Analysis, Department of Electrical Engineering, ElectroScience Laboratory (J. D. Young), 1 February 1987 through 1 December 1987. (Project 765919 - Continuation)

\$1,225.00 - Sandia Corporation, Albuquerque, New Mexico, Optimization of Amorphous Alloy Coatings as a Barrier to Hydrogen Absorption into Steels, Department of Metallurgical Engineering (B. E. Wilde), 15 September 1987 through 2 December 1987. (Project 766379 - Continuation)

Equipment - Tektronix, Inc., Wilsonville, Oregon, Center for Commercialization of Space Membership Agreement, Center for Mapping (J. D. Bossler), 24 November 1987 through 23 November 1989. (Project 766219 - Continuation) (Approximate Dollar Value - \$50,482.50)

TOTAL - INDUSTRIAL AWARDS

\$ 447,621.42

Other Non-Federal Research Contracts/Grants

\$144,419.00 - University of California, Livermore, California, Thermodynamic Modeling of Sensitization and SCC Performance of Candidate Materials for Containment of High Level Nuclear Waste, Department of Metallurgical Engineering (B. E. Wilde), 1 March 1987 through 30 September 1988. (Project 766496 - Continuation)

\$116,788.00 - University of Texas, Dallas, Texas, Yeast Mitochondrial DNA Recombination, Department of Molecular Genetics (P. S. Perlman), 1 September 1987 through 31 August 1988. (Project 765272 - Continuation)

\$78,900.00 - Butler County Department of Human Services, Hamilton, Ohio, Development of Living Skills, Cooperative Extension Field Operations (P. H. Simmons), 1 December 1987 through 30 November 1988. (Project 765233 - Continuation)

\$67,222.00 - Indiana University, Bloomington, Indiana, Malaysia Cooperative Program, Department of Psychology (J. D. Nolan), 1 January 1988 through 31 December 1988. (Project 764972 - Continuation)

\$67,000.00 - American Cancer Society, Inc., New York, New York, Synthetic Catalysts That Act on Mononucleotides, Department of Chemistry (A. W. Czarnik), 1 January 1988 through 31 December 1988. (Project 764147 - Continuation)

February 4 and 5, 1988 meeting, Board of Trustees

REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)

THE OHIO STATE UNIVERSITY RESEARCH FOUNDATION (contd)

Other Non-Federal Research Contracts/Grants (contd)

\$63,477.00 - Indiana University, Bloomington, Indiana, Malaysia Cooperative Program, Department of English (G. K. Grigsby), 1 January 1988 through 31 December 1988. (Project 764972 - Continuation)

\$57,969.00 - Singapore Government, Singapore, Republic of Singapore, Curriculum Design and Development Fellowship Program -- Singapore, The National Center for Research in Vocational Education (R. D. Ryan), 1 September 1987 through 30 June 1988. (Project 766492 - New)

\$41,808.00 - The University of Utah, Salt Lake City, Utah, Immunosuppressive Therapy for Biopsy-Proved Myocarditis, Department of Internal Medicine (R. C. Starling), 1 July 1987 through 30 June 1988. (Project 765563 - Continuation)

\$40,305.00 - Virginia Polytechnic Institute, Blacksburg, Virginia, Interior Fluid Dynamics of Liquid-Filled Shells, Department of Mechanical Engineering (T. Herbert), 10 October 1987 through 9 August 1988. (Project 766484 - New)

\$39,638.00 - Elsa U. Pardee Foundation, Midland, Michigan, Mechanisms of Retroviral Dysregulation of Hematopoiesis in Preleukemia, Department of Veterinary Pathobiology (M. L. Wellman), 1 January 1988 through 31 December 1988. (Project 766507 - New)

\$36,818.00 - Indonesia Government, Jakarta, Indonesia, Indonesian Visiting Scholar Program, College of Education - Administration (J. J. Buffer), 27 December 1987 through 30 June 1988. (Project 766512 - Continuation)

\$34,158.00 - Muscular Dystrophy Association, New York, New York, Calcium²⁺, Drug, and Kinase Modulation of Calcium Channels, Department of Physiological Chemistry (J. D. Johnson), 1 January 1988 through 31 December 1988. (Project 763866 - Continuation)

\$24,393.00 - Southeastern Poultry and Egg Association, Decatur, Georgia, Effects of Antibiotic Therapy on the Competitive Exclusion of Salmonella by Lactobacillus acidophilus, Department of Poultry Science - OARDC and Department of Poultry Science (J. F. Stephens), 1 January 1988 through 30 September 1989. (Project 766490 - New)

\$23,765.00 - Japan-United States Friendship Committee, Washington, D.C., Acquisition and Cataloging of Works Cited in the Kodansha Encyclopedia of Japan, University Libraries (M. Donovan), 1 October 1987 through 30 September 1988. (Project 766453 - New)

\$15,000.00 - Deafness Research Foundation, New York, New York, Role of Fimbriae in the Adherence of Non-Typeable Hemophilus influenzae to Nasopharyngeal and Middle Ear Mucosa, Department of Otolaryngology (L. O. Bakaletz), 1 January 1988 through 31 December 1988. (Project 765827 - Continuation)

February 4 and 5, 1988 meeting, Board of Trustees

REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)

THE OHIO STATE UNIVERSITY RESEARCH FOUNDATION (contd)

Other Non-Federal Research Contracts/Grants (contd)

\$15,000.00 - Deafness Research Foundation, New York, New York, Antibody Levels Directed Against the Outer Membrane Proteins of Hemophilus influenzae from Patients with Chronic Otitis Media with Effusion, Department of Otolaryngology (T. DeMaria), 1 January 1988 through 31 December 1988. (Project 765840 - Continuation)

\$14,025.00 - Eight Members of the National Entrepreneurship Education Consortium, National Entrepreneurship Education Consortium, The National Center for Research in Vocational Education (R. D. Ryan), 1 July 1987 through 30 June 1988. (Project 766207 - Continuation)

\$14,000.00 - Institute of Gas Technology, Chicago, Illinois, Microbial Desulfurization and Denitrification of Eastern Oil Shales, Department of Microbiology (P. R. Dugan and R. M. Pfister), 1 October 1987 through 30 March 1990. (Project 766497 - New)

\$10,000.00 - Edgar W. Ingram Foundation, Columbus, Ohio, School Attendance Project, College of Education - Administration (T. M. Stephens) and Education Services and Research (G. Cartledge), 1 December 1987 through 30 November 1988. (Project 766519 - New)

\$10,000.00 - Yassenoff Foundation, Columbus, Ohio, School Attendance Project, College of Education - Administration (T. M. Stephens) and Education Services and Research (G. Cartledge), 1 September 1987 through 31 August 1988. (Project 766516 - New)

\$10,000.00 - American Cancer Society, Ohio Division, Inc., Dublin, Ohio, Induction of Tumor Membrane Phenotypic Changes by Alpha-Interferon: Correlation of In Vitro and In Vivo Effects, Department of Pathology (S. E. Tuttle), 1 November 1987 through 31 October 1988. (Project 766500 - New)

\$8,900.00 - Butler County Department of Human Services, Hamilton, Ohio, Development of Living Skills, Cooperative Extension Field Operations (P. H. Simmons), 1 December 1986 through 30 November 1987. (Project 765233 - Continuation)

\$7,975.00 - Children's Hospital Research Foundation, Columbus, Ohio, Vasoactive Intestinal Peptide Receptors on Immune Effector Cells, Department of Internal Medicine (T. M. O'Dorisio), 1 July 1987 through 30 June 1988. (Project 765296 - Continuation)

\$7,207.00 - Texas A & M University, College Station, Texas, Ocean Drilling Program, Department of Geology and Mineralogy (P. N. Webb), 9 December 1987 through 20 March 1988. (Project 766510 - New)

\$6,500.00 - The Columbus Foundation, Columbus, Ohio, 1989 Alfred L. Willson Conference, Department of Educational Policy and Leadership (L. L. Cunningham), 1 November 1987 through 31 October 1989. (Project 766502 - Continuation)

February 4 and 5, 1988 meeting, Board of Trustees

REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)

THE OHIO STATE UNIVERSITY RESEARCH FOUNDATION (contd)

Other Non-Federal Research Contracts/Grants (contd)

\$5,962.85 - Midwest Universities Consortium for International Activities, Columbus, Ohio, Midwest Universities Consortium for International Activities (MUCIA) -- Incentive Funding, Office of International Affairs (F. Firebaugh), 1 January 1988 through 31 December 1988. (Project 765219 - Continuation)

\$4,287.00 - Ashtabula County Joint Vocational School District, Jefferson, Ohio, Analysis of Employability Measures and the Effects of Instruction, The National Center for Research in Vocational Education (R. D. Ryan), 1 December 1987 through 31 May 1988. (Project 766513 - New)

\$3,000.00 - West Virginia Department of Correction, Charleston, West Virginia, National Corrections Education Consortium, The National Center for Research in Vocational Education (R. D. Ryan), 1 January 1987 through 31 December 1987. (Project 765934 - Continuation)

\$1,800.00 - Cleveland Public Schools, Cleveland, Ohio, Technical Assistance for Cleveland Public Schools, The National Center for Research in Vocational Education (R. D. Ryan), 1 September 1987 through 30 November 1987. (Project 768058 - New)

\$1,500.00 - University Affiliated Cincinnati Center for Developmental Disorders, Cincinnati, Ohio, Before Conception, The Prenatal Period, and Causative Postnatal, College of Medicine - Administration (G. L. Trzebiatowski), 1 October 1987 through 31 October 1987. (Project 766495 - New)

\$1,008.00 - Cancer Therapy and Research Foundation of South Texas, San Antonio, Texas, Multidisciplinary Participation in the Cancer Control Activities of the Southwest Oncology Group, Department of Internal Medicine (S. P. Balcerzak), 1 February 1985 through 30 June 1988. (Project 765208 - Continuation)

\$281.25 - North Atlantic Treaty Organization, Brussels, Belgium, Inosine Biosynthesis in tRNA: Role in Regulating Gene Expression, Department of Physiological Chemistry and Comprehensive Cancer Clinic (R. W. Trewyn), 1 April 1986 through 31 March 1988. (Project 765315 - Continuation)

TOTAL - OTHER NON-FEDERAL AWARDS

\$ 973,106.10

ENGINEERING EXPERIMENT STATION

Industrial and Other Sponsored Research and Development

\$26,000.00 - Additional budget from General Motors Technical Center, Warren, MI, "Improving the Resistance of High Strength Fasteners to Hydrogen Embrittlement," Department of Metallurgical Engineering, 1 September 1985 through 31 August 1988. (529695, Ext. 2)

\$22,380.00 - from 28 sponsors of 29 development projects conducted under the direction of 3 departments/research areas.

February 4 and 5, 1988 meeting, Board of Trustees

REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)

ENGINEERING EXPERIMENT STATION (contd)

Industrial and Other Sponsored Research and Development (contd)

\$22,050.00 - Additional budget from General Electric, Cincinnati, OH, "Testing of the GE36 Unducted Fan Engine Simulator in Three Existing Engine Test Cast Models," Department of Aeronautical and Astronautical Engineering, 1 September 1987 through 28 February 1988. (312433, Ext. 1)

TOTAL - INDUSTRIAL AND OTHER SPONSORED RESEARCH **\$ 70,430.00**

THE OHIO STATE UNIVERSITY DEVELOPMENT FUND

Establishment of Named Funds

The Ohio State University Marion Campus
Prairie Nature Education Center Endowment

The Ohio State University Marion Campus Prairie Nature Education Center Endowment was established February 5, 1988, by the Board of Trustees of The Ohio State University, with gifts to The Ohio State University Development Fund designated for support of the Marion Campus.

All gifts are to be invested in the University's Permanent Endowment Fund, under the rules and regulations adopted by the Board of Trustees of The Ohio State University, with the right to invest and reinvest as occasion dictates.

Ten percent (10%) of the annual income shall be added to the fund's principal. The remaining ninety percent (90%) shall be used to provide salaries, educational grants, equipment, supplies, upkeep and management of The Ohio State University Marion Campus Prairie Nature Education Center.

It is the desire of the donor(s) that this fund should benefit the University in perpetuity. If the need for this fund should cease to exist or so diminish as to provide unused income, then another use shall be designated by the Board of Trustees in consultation with the appropriate college dean, department chairperson, or program administrative officer in order to carry out the desire of the donor(s).

The Franklin O. Vogelsang Memorial Scholarship

The Franklin O. Vogelsang Memorial Scholarship was established February 5, 1988, by the Board of Trustees of The Ohio State University with a gift to The Ohio State University Development Fund from the estate of Franklin O. Vogelsang (B.M.E. '29) of Canton, Ohio.

All gifts are to be invested in the University's Permanent Endowment Fund, under the rules and regulations adopted by the Board of Trustees of The Ohio State University, with the right to invest and reinvest as occasion dictates.

The annual income shall be distributed in the following manner: ten percent (10%) of the annual income is to be added to the principal; the

February 4 and 5, 1988 meeting, Board of Trustees

REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)

THE OHIO STATE UNIVERSITY DEVELOPMENT FUND (contd)

Establishment of Named Funds (contd)

The Franklin O. Vogelsang Memorial Scholarship (contd)

remaining ninety percent (90%) is to be used to provide one or more scholarships for students enrolled in the College of Engineering. The recipient(s) will be chosen by the Dean of the College of Engineering in consultation with the University Committee on Student Financial Aid. Selection shall be based on: (1) the completion of one full year of study in the engineering curriculum, and (2) the recipient(s)' grades must have ranked the recipient(s) in the upper half of his or her class for the previous full year.

It is the desire of the donor that this fund should benefit the University in perpetuity. If the need for this fund should cease to exist or so diminish as to provide unused income, then another use shall be designated by the Board of Trustees in consultation with the appropriate college administrative officer who is then responsible for the College of Engineering.

Thomas E. Powers Veterinary Clinical Pharmacology Fund

The Thomas E. Powers Veterinary Clinical Pharmacology Fund was established February 5, 1988, by the Board of Trustees of The Ohio State University, with gifts to The Ohio State University Development Fund from the Schering-Plough Foundation, Inc.

All gifts are to be invested in the University's Permanent Endowment Fund, under the rules and regulations adopted by the Board of Trustees of The Ohio State University, with the right to invest and reinvest as occasion dictates.

The annual income shall be distributed to the College of Veterinary Medicine. All income in 1988 and 1989 will be returned to the principal. Should the fund reach \$500,000 within five years, it shall be known as The Thomas E. Powers Professorship in Clinical Pharmacology. Should it reach \$1.25 million in five years, it shall become The Thomas E. Powers Chair in Clinical Pharmacology.

The professorship or chair holder will embody the principals of Dr. Powers. The appointee's qualifications will include a world-class record in research activities, teaching, and public service. The appointee will also promote dialogue between academia, industry, and government.

Beginning in 1990 (at the discretion of the Dean), the fund can be used to support research and education in veterinary clinical pharmacology. A primary consideration would be the commencement of The Thomas E. Powers Visiting Lecturer in Clinical Pharmacology.

It is the desire of the donor(s) that this fund should benefit the University in perpetuity. If the need for this fund should cease to exist or so diminish as to provide unused income, then another use shall be designated by the Board of Trustees in consultation with the

February 4 and 5, 1988 meeting, Board of Trustees

REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)

THE OHIO STATE UNIVERSITY DEVELOPMENT FUND (contd)

Establishment of Named Funds (contd)

Thomas E. Powers Veterinary Clinical Pharmacology Fund (contd)

appropriate college dean, department chairperson, or program administrative officer in order to carry out the desire of the donor(s).

The Harry L. Thompson Scholarship Fund

The Harry L. Thompson Scholarship Fund was established February 5, 1988, by the Board of Trustees of The Ohio State University with gifts to The Ohio State University Development Fund from Harry L. Thompson, (B.S.Ed. '53, M.A. '60), Oak Harbor, Ohio.

All gifts are to be invested in the University's Permanent Endowment Fund, under the rules and regulations adopted by the Board of Trustees of The Ohio State University, with the right to invest and reinvest as occasion dictates.

The annual income shall be used for one or more scholarships in the College of Education. Selection shall be based on need and/or scholastic ability. It is the desire of the donor that the scholarship(s) be given each year to an Ohio student(s). However, preference should be given first to a student(s) from Ottawa County and second to a student(s) from Northwest Ohio. Scholarship recipient(s) shall be chosen by the College of Education Scholarship Committee in consultation with the University Committee on Student Financial Aid.

It is the desire of the donor that this fund should benefit the University in perpetuity. If the need for this fund should cease to exist or so diminish as to provide unused income, then another use shall be designated by the Board of Trustees in consultation with the person then responsible for teacher education.

The Geraldine McFadden Kuhn Scholarship

The Geraldine McFadden Kuhn Scholarship was established February 5, 1988, by the Board of Trustees of The Ohio State University, with gifts to The Ohio State University Development Fund from Wayne Heskett Kuhn (B.M.E. '41) of Marion, Ohio.

All gifts are to be invested in the University's Permanent Endowment Fund, under the rules and regulations adopted by the Board of Trustees of The Ohio State University, with the right to invest and reinvest as occasion dictates.

Twenty percent (20%) of the annual income shall be added to the fund's principal. The remaining eighty percent (80%) shall be used to provide one or more scholarships to deserving students of merit who are attending The Ohio State University at Marion and are pursuing study leading to a degree awarded by the College of Home Economics or the Department of English under the College of Humanities. The selection of the recipient

February 4 and 5, 1988 meeting, Board of Trustees

REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)

THE OHIO STATE UNIVERSITY DEVELOPMENT FUND (contd)

Establishment of Named Funds (contd)

The Geraldine McFadden Kuhn Scholarship (contd)

is to be made upon the recommendation of The Ohio State University Marion Campus Scholarship Committee in consultation with the Dean of the Marion Campus and the University Committee on Student Financial Aid.

It is the desire of the donor that this fund should benefit the University in perpetuity. If the need for this fund should cease to exist or so diminish as to provide unused income, then another use shall be designated by the Board of Trustees in consultation with the appropriate college dean, department chairperson, or program administrative officer in order to carry out the desire of the donor.

The Dr. Dale A. Ray Memorial Fund

The Dr. Dale A. Ray Memorial Fund was established February 5, 1988, by the Board of Trustees of The Ohio State University with gifts to The Ohio State University Development Fund from Frank A. Ray (B.A. '70, J.D. '73), other family members, and friends of Dr. Dale A. Ray, Professor of Agronomy.

All gifts are to be invested in the University's Permanent Endowment Fund under the rules and regulations adopted by the Board of Trustees of The Ohio State University, with the right to invest and reinvest as the occasion dictates.

The annual income shall be used to support the Dale A. Ray Award of at least \$100 to the outstanding grain crop student each year. Any additional income from the fund shall be used to support teaching programs in the Department of Agronomy that deal with plant breeding and small grains, to provide resources for the purchase of equipment and to provide support for attendance at conferences and institutes. The selection of the award recipient and expenditure of all funds shall have the approval of the Chairperson of the Department of Agronomy.

It is the desire of the donors that this fund should benefit the University in perpetuity. If the need for this fund should cease to exist or so diminish as to provide unused income, then another use shall be designated by the Board of Trustees in consultation with the person then responsible for Agronomy extension and teaching.

Change of Name of Named Fund

The Margaret and Richard D. Wood, Sr., Endowment Fund

The Richard D. Wood, Sr., Endowment Fund was established December 15, 1976, by the Board of Trustees of The Ohio State University with a gift to The Ohio State University Development Fund from Richard D. Wood, Sr., (B.A. '50) Columbus, Ohio. The name was changed February 5, 1988.

February 4 and 5, 1988 meeting, Board of Trustees

REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)

THE OHIO STATE UNIVERSITY DEVELOPMENT FUND (contd)

Change of Name of Named Fund (contd)

The Margaret and Richard D. Wood, Sr., Endowment Fund (contd)

All gifts are to be invested in the University's Permanent Endowment Fund under the rules and regulations adopted by the Board of Trustees of The Ohio State University with the right to invest and reinvest as occasion dictates.

The annual income is to be used at the discretion of the Dean of the College of Humanities in support of programs that will improve the ability of Ohio State students in all fields of study to read and write effectively in English.

Should the need for this fund cease to exist or so diminish as to provide unused income, then the income may be used for any purpose whatsoever as determined by the Board of Trustees, with preference being given to recommendations from the appropriate administrative official of the University who is then directly responsible for the teaching of the humanities.

Change in Description of Named Fund

Florence O. Wilson Fund

The Florence O. Wilson Fund was established September 2, 1971, by the Board of Trustees of The Ohio State University with a gift to The Ohio State University Development Fund from Miss Florence O. Wilson, Oklahoma City, Oklahoma, to support the Ernest Q. Moores Demonstration Farm. The description was changed February 5, 1988.

All gifts are to be invested in the University's Permanent Endowment Fund, under the rules and regulations adopted by the Board of Trustees of The Ohio State University, with the right to invest and reinvest as occasion dictates.

The annual income shall be used for support of an endowed chair in lactational physiology and mammary health within the College of Agriculture, Department of Dairy Science at The Ohio State University.

It was the desire of the donor that this fund should benefit the University in perpetuity. Should the need for this fund cease to exist or so diminish as to provide unused income, then another use shall be designated by the Board of Trustees, in consultation with the appropriate administrative officials of the College of Agriculture and the Department of Dairy Science, in order to carry out the desire of the donor.

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February 4 and 5, 1988 meeting, Board of Trustees

**REQUEST FOR CONSTRUCTION BIDS AND
ESTIMATE OF COST - FUNDING**

Resolution No. 88-81

Synopsis: Authorization to request construction bids is proposed.

WHEREAS the plans and specifications for the following project has been completed and, at the request of the Vice President for Business and Administration, the President recommended that the Board of Trustees authorize the request for construction bids:

DOAN HALL ELEVATOR MODERNIZATION

Project: Replacement of the controlling system of elevators 1, 2 and 3 in Doan Hall with collective microprocessors which will modernize and improve the operation of these service elevators. The new controlling units with computer programming for system dispatching and car selection will greatly reduce response time.

Funding: University Hospitals Funds

Estimated Construction Cost: \$275,000.00

Estimated Project Cost: \$320,260.00

NOW THEREFORE

BE IT RESOLVED, That the President and/or Vice President for Business and Administration be authorized, in accordance with established University procedures, to request construction bids on this project, and if satisfactory bids are received, to award the necessary contracts, with all actions to be reported to this Board at the appropriate time.

Upon motion of Mrs. Bowser, seconded by Ms. Casto, the Board of Trustees adopted the foregoing resolution by unanimous roll call vote.

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**REPORT OF AWARD OF CONTRACTS AND
ESTABLISHMENT OF CONTINGENCY FUNDS**

Resolution No. 88-82

Synopsis: Contracts have been awarded for the projects listed below to the lowest and best bidders in accordance with University procedures.

WHEREAS resolutions adopted by the Board of Trustees at previous meetings authorized the President and/or Vice President for Business and Administration to sign the plans and specifications and, in accordance with established University procedures, to request bids and, if satisfactory bids were received, to recommend the award of contracts for the Rhodes

February 4 and 5, 1988 meeting, Board of Trustees

**REPORT OF AWARD OF CONTRACTS AND
ESTABLISHMENT OF CONTINGENCY FUNDS (contd)**

Hall 5th Floor - Pastoral Care Remodeling and Doan Hall 8 West - Detention Unit Remodeling projects as follows:

RHODES HALL 5TH FLOOR - PASTORAL CARE REMODELING

Description: This project provides for the relocation of an air handler in the fifth floor mechanical room to allow for construction of Pastoral Care offices adjacent to the Atrium Chapel, and the construction of rest room facilities contiguous with elevator equipment penthouse in the Atrium. Construction is scheduled to begin January 1988 and be completed within one hundred eighty days.

General Contract

Date Received:	November 24, 1987
No. of Bids:	6
Low Bid:	\$115,000.00
High Bid:	\$185,941.00
Estimate of Cost:	\$148,000.00
Awarded to:	Farrell Construction, Columbus, OH

Plumbing Contract

Date Received:	November 24, 1987
No. of Bids:	5
Low Bid:	\$ 27,950.00
High Bid:	\$ 44,000.00
Estimate of Cost:	\$ 30,500.00
Awarded to:	J. A. Croson, Columbus, OH

HVAC Contract

Date Received:	December 21, 1987
No. of Bids:	2
Low Bid:	\$ 89,000.00
High Bid:	\$ 94,903.00
Estimate of Cost:	\$106,200.00
Awarded to:	Bruner Corp., Columbus, OH

February 4 and 5, 1988 meeting, Board of Trustees

**REPORT OF AWARD OF CONTRACTS AND
ESTABLISHMENT OF CONTINGENCY FUNDS (contd)**

RHODES HALL 5TH FLOOR - PASTORAL CARE REMODELING (contd)

Electric Contract

Date Received:	November 24, 1987
No. of Bids:	6
Low Bid:	\$ 19,820.00
High Bid:	\$ 30,630.00
Estimate of Cost:	\$ 30,300.00
Awarded to:	Reco Electric, Gahanna, OH
Total All Contracts:	\$251,770.00
Total Contingency Allowance:	\$ 32,730.10 (which is 13% of construction costs)
Total Project Cost:	\$303,604.00
Funding:	University Hospitals Funds

DOAN HALL 8 WEST - DETENTION UNIT REMODELING

Description: This project provides for renovation of existing area and creating additional space for treatment of patients currently serving time in State penal institutions. This space was previously used for the epidemiology program which is now housed in Means Hall. Construction is scheduled to begin January 1988 and is to be completed within one hundred fifty days.

General Contract

Date Received:	January 6, 1988
No. of Bids:	9
Low Bid:	\$ 39,760.00
High Bid:	\$ 79,403.00
Estimate of Cost:	\$ 82,500.00
Awarded to:	Waller & Lund, Columbus, OH

Plumbing Contract

Date Received:	January 6, 1988
No. of Bids:	7

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**REPORT OF AWARD OF CONTRACTS AND
ESTABLISHMENT OF CONTINGENCY FUNDS (contd)**

DOAN HALL 8 WEST - DETENTION UNIT REMODELING (contd)

Plumbing Contract (contd)

Low Bid:	\$ 16,700.00
High Bid:	\$ 30,100.00
Estimate of Cost:	\$ 33,000.00
Awarded to:	J. A. Croson, Columbus, OH

Electric Contract

Date Received:	January 6, 1988
No. of Bids:	8
Low Bid:	\$ 18,700.00
High Bid:	\$ 36,345.00
Estimate of Cost:	\$ 40,500.00
Awarded to:	Claypool Electric, Lancaster, OH
Total All Contracts:	\$ 75,160.00
Total Contingency Allowance:	\$ 9,770.80 (which is 13% of construction costs)
Total Project Cost:	\$ 91,692.00
Funding:	University Hospitals Funds

NOW THEREFORE

BE IT RESOLVED, That pursuant to the actions previously authorized by the Board, the award of contracts and the establishment of project funds and contingency funds for the projects listed above are hereby approved.

Upon motion of Mr. Barone, seconded by Ms. Casto, the Board of Trustees adopted the foregoing resolution by unanimous roll call vote.

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**ACCEPTANCE OF REPORT OF AUDITS OF THE OHIO STATE
UNIVERSITY AND THE OHIO STATE UNIVERSITY RESEARCH FOUNDATION**
Resolution No. 88-83

Synopsis: The report of the audit of The Ohio State University for 1986-87 conducted by Touche Ross International and the report of the audit of The Ohio State University Research Foundation for 1985-86 and 1986-87 conducted by Farms & Co., Inc., are recommended for acceptance.

February 4 and 5, 1988 meeting, Board of Trustees

**ACCEPTANCE OF REPORT OF AUDITS OF THE OHIO STATE
UNIVERSITY AND THE OHIO STATE UNIVERSITY RESEARCH FOUNDATION (contd)**

WHEREAS in August 1985, with the approval of the Auditor of State, The Ohio State University entered into a four-year agreement with Touche Ross International for an annual audit of the University, with Parms & Co., Inc., as a subcontractor to provide certain audit services; and

WHEREAS the Touche Ross audit of the University for 1986-87 and the Parms & Co. audit of the Research Foundation for 1985-86 and 1986-87, both meeting the requirements of the Auditor of State, have been received and reviewed by the appropriate University offices; and

WHEREAS the accounts, records, files, and reports of the University and the Research Foundation have been found to be in essentially satisfactory condition, but certain recommendations have been included in the reports; and

WHEREAS the auditors' recommendations have been studied by the appropriate University offices, and procedures and responses have been developed as a result of the recommendations:

NOW THEREFORE

BE IT RESOLVED, That the Touche Ross International audit of The Ohio State University for 1986-87 (including reports of The Ohio State University Development Fund for 1985-86 and 1986-87, The Ohio State University Hospitals for 1986-87, and WOSU Stations for 1986-87) and the Parms & Co., Inc., audit of The Ohio State University Research Foundation for 1985-86 and 1986-87 be accepted.

Upon motion of Mr. Teaford, seconded by Mr. Barone, the Board of Trustees adopted the foregoing resolution by unanimous voice vote.

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APPROVAL OF CONSTRUCTION AT 4-H CAMP CLIFTON

Resolution No. 88-84

Synopsis: Construction of a new manager's cabin at Camp Clifton (4-H Club Camp, Inc.) is proposed.

WHEREAS the Camp Clifton (4-H Club Camp) is a facility located in Greene County and administered by the Ohio Cooperative Extension Service; and

WHEREAS the 1940 lease signed by the Board of Control of the Ohio Agricultural Experiment Station and the officers of the camp requires Board approval of any change in landscape or construction; and

WHEREAS responsibility for supervision of this property was transferred to the Board of Trustees of The Ohio State University in 1964; and

WHEREAS the total financial responsible of 4-H Camp Clifton since its formation in the early 1940's has rested with the non-profit 4-H Club Camp, Inc., with all funds raised by the groups utilizing the camp; and

February 4 and 5, 1988 meeting, Board of Trustees

APPROVAL OF CONSTRUCTION AT 4-H CAMP CLIFTON (contd)

WHEREAS the camp corporation has the funds on hand to complete the project pursuant to the long-range plan (floor and plot plans attached):

NOW THEREFORE

BE IT RESOLVED, That the Board of Trustees hereby approves the construction of a new manager's cabin at Camp Clifton.

Upon motion of Mrs. Bowser, seconded by Ms. Casto, the Board of Trustees adopted the foregoing resolution by unanimous voice vote.

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REPORT - UNIVERSITY'S INVESTMENT PORTFOLIO

Resolution No. 88-85

RESOLVED, That the report on the University's Investment Portfolio, dated January 15, 1988, as submitted to the Fiscal Affairs Committee of the Board of Trustees, be received and filed with the official records of the Board.

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**SECOND QUARTER REPORT -
1987-88 CURRENT FUNDS BUDGET**

Resolution No. 88-86

RESOLVED, That the second quarter report on the 1987-88 Current Funds Budget, dated February 5, 1988, as submitted to the Fiscal Affairs Committee of the Board of Trustees, be received and filed with the official records of the Board.

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**QUARTERLY REPORT -
WAIVERS OF COMPETITIVE BIDDING REQUIREMENTS**

Resolution No. 88-87

RESOLVED, That the quarterly report on the Waivers of Competitive Bidding Requirements, dated October through December 1987, as submitted to the Fiscal Affairs Committee of the Board of Trustees, be received and filed with the official records of the Board.

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February 4 and 5, 1988 meeting, Board of Trustees

Thereupon the Board adjourned to meet Thursday, March 3, 1988, at The Ohio State University Fawcett Center for Tomorrow, Columbus, Ohio, at 6:30 p.m.

Attest:

Madison H. Scott
Secretary

Leonard J. Immke
Vice Chairman

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THE OHIO STATE UNIVERSITY
OFFICIAL PROCEEDINGS OF THE
ONE THOUSAND TWO HUNDRED AND THIRTY-NINETH MEETING
OF THE BOARD OF TRUSTEES

Columbus, Ohio, March 3 and 4, 1988

The Board of Trustees met at its regular monthly meeting on Thursday, March 3, and Friday, March 4, 1988, at The Ohio State University Fawcett Center for Tomorrow, Columbus, Ohio, pursuant to adjournment.

* * *
Minutes of the last meeting were approved.
* * *

March 3 and 4, 1988 meeting, Board of Trustees

The Chairman, Mr. Redman, called the meeting of the Board of Trustees to order on March 3, 1988, at 6:30 p.m. He requested the Secretary to call the roll. The meeting recessed into Executive Session for the purpose of considering legal issues and personnel-related matters.

Present: Edmund C. Redman, Chairman, Leonard J. Immke, Shirley D. Bowser, Hamilton J. Teaford, John J. Barone, Deborah E. Casto, and John W. Kessler.

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Mr. Redman reconvened the meeting on March 4, 1988, at 9:50 a.m.

Present: Edmund C. Redman, Chairman, Leonard J. Immke, Shirley D. Bowser, Hamilton J. Teaford, John J. Barone, Deborah E. Casto, and John W. Kessler.

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Mr. Redman:

We'd like to have Professor Boris Mityagin of the Department of Mathematics address the Board, and we've allocated 10 minutes to that subject. Mr. Mityagin --

Professor Mityagin:

Thank you for a chance to speak at your meeting. The Department of Mathematics at OSU is one of the best in state universities in the country, and I'm sorry to be here and to speak not about its achievements and bright future, but about strange events which took place there in the last four or five years.

In May 1984 the Ohio Governor made a surprising decision to give as an award, an Ohio Eminent Scholar Chair in Scientific Computation and Numerical Analysis to Department of Mathematics for our "outstanding graduate and research program in scientific computation." Although everybody from a C-average graduate student to our triple-A president knew that such a program, either outstanding or mediocre, either research or graduate, does not exist and did never exist. Governor's decision was a part of Ohio Eminent Scholar Program established in 1983 by Ohio Legislature to attract outstanding scientists to the State of Ohio.

How the OSU top officials succeeded to convince the Board of Regents and the Governor to declare a non-existing program to be a winner in state-wide competition, or at least one of the best in the State, is a mystery. Proposal emphasized the Departments achievements but it was irrelevant to the field of the award. How cynical were authors of proposal. You can see from the statement of its leading writer Dr. J. Greenberg, "I think Ohio State is regarded as something of a joke in the area of applied and computational mathematics." It's a direct quotation. I would not agree with judgmental part of this statement, but a naked fact is no program in scientific computation did ever exist.

March 3 and 4, 1988 meeting, Board of Trustees

Professor Mityagin: (contd)

It was absolutely obvious that Department of Mathematics does not satisfy the Board of Regents' guidelines to the area's potential for excellence. To support the point of that requirement the proposal listed eight Department of Mathematics members and five faculty members from other departments. The list is impressive but none of listed was an expert in the area. How attractive the program was, you could judge from the fact that of eight listed Math faculty members, four left in the next two years, including the leading writer of the proposal, and two spent most of the four years on leave working in the other scientific centers.

Those paradoxes partly could be explained by the fact that the proposal has been admitted by OSU top officials to the Board of Regents in October '83 without any or at least any open discussion in the Department.

I skip long story of many years of painful and drainful search for an expert, but how could you attract an expert if there is nothing in the Department to attract him? You could not, and it pushes you to misrepresentation and mockery more and more as time goes on, after your first tries and failures to that direction.

There is no doubt, and I want to point that out, that scientific computation and numerical analysis are important areas to be developed in Math Department or other departments of OSU. A lot has been done, in particular the creation of a State Center on Supercomputers. It is not the issue in this discussion. The point is that Legislative decision of 1983 on an Ohio Eminent Scholar Program gave no channels for the area without any presence in the Department, and misuse of the program aimed to enhance excellence of State academic institutions just for getting funds and money for a university or a department was a deviation from the Legislative intentions and violation of its decision.

The Department made heroic efforts to find good candidate. In late '84 two offers made had been rejected. In 1986-87 one person applied and after long discussion he was even rejected as a candidate for associate professor position.

In fall 1987 Jennings's Administration was embarrassed, embarrassed, embarrassed by the fact that for three and a half years the position had not been filled yet. It reminded everybody about the '84 mockery and the only way to close the deal, put it aside and forget it, was to hire any person available. It happened that Dr. Baker applied for that position at that time and the procedures went ahead at the high gear. The search committee was ignored.

In December 9, 1987 session of advisory committee in the Department took place, nobody claimed that Dr. Baker satisfied the description and specifications of that position. Moreover, the overwhelming majority of faculty members who spoke in that meeting made clear that Dr. Baker is not qualified as the

March 3 and 4, 1988 meeting, Board of Trustees

Professor Mityagin: (contd)

eminent scholar. The consensus of the meeting was expressed perfectly by Dr. Harvey Friedman, a university professor. After scientific presentation on Baker's papers and claims that they are on the level of Bachelor's diploma, Dr. Friedman said, "Oh, I thought that he (Dr. Baker) is much worse," but he knows something about integral equations; now, of course I will support his case.

One could claim that it was strange to ignore the issue of scientific level when you are talking on such a serious appointment. But don't blame my colleagues or our chairman. They were tired and psychologically exhausted by four years discussions. You could be also amazed that for four years they resisted to yield to administration pressures to hire any person available. Now, in December 1987, Department gave up and advisory committee voted to recommend this appointment.

It should be mentioned that although at least on the paper Dr. Baker is an expert in fluid dynamics, the opinion of our leading faculty members from Aeronautics or Mechanical Engineering Department was ignored also. They told to Chairman and Dean explicitly that it would be strange to appoint Dr. Baker as an Eminent Scholar.

No out-of-Math Department faculty member has expressed any support for Dr. Baker as a candidate for Ohio Eminent Scholar. It is true that some of them, and I would say the same, would be glad to have him at Campus as our faculty member. But it is presumably true about any hiring in our University, whether we are talking about full professor or tenure-track assistant professor. Scientific merits would put Dr. Baker hardly among our top 20 members, for sure not among top 15. I am talking about Department, not about the University.

To accept such a level for eminent scholar would be a mockery. It would jeopardize the implementation of the entire Ohio Eminent Scholar Program at OSU and the State of Ohio. How could we or you explain to our associate professors who are better than Dr. Baker, but have not been promoted because of our standards for full professor positions lately, that such a hiring is in the best interests of our University? How could we or you explain to an outstanding, recently hired faculty member in the same area, who is much -- in another department, who is much better than Dr. Baker, but who with his great respect to The Ohio State University and to the title of Ohio Eminent Scholar, did not dare to apply for that position a year ago? How could we explain to him that such a hiring is not a mockery? You could not, because it is a mockery. The money has been given to enhance excellence and to attract an outstanding and eminent scholar.

Today President Jennings recommends to hire the only person available, the only for two years, as a way to cash in a million dollars. Such a perversion is not the way to excellence. Such an action is incompatible with our goal to be in 15-20 years among top 10 national universities. Such a

March 3 and 4, 1988 meeting, Board of Trustees

Professor Mityagin: (contd)

hiring puts a low ceiling to our search for excellence. Thank you.

President Jennings:

Thank you, Professor Mityagin. I'd like to have Dr. Brand review the process that went on in this hiring. I should say that I first of all apologize to Dr. Baker and hope that the slanderous discussion of his qualifications is ignored by Dr. Baker. That type of discussion on the individual is inappropriate in a public setting. And I think that secondly it should be recognized that the eminent scholar decisions were not made by the Governor or the Legislature. They were made by the Board of Regents and on the basis of a peer reviewed process. Members of the peer committees were selected from all over the State and did not include Ohio State University.

I would like Dr. Brand to discuss the appointment process because I do not agree that Dr. Baker is a selection that does not represent eminence in mathematics. I think Dr. Baker can stand with any of the eminent scholars selected at The Ohio State University and can stand with any of the mathematicians in applied mathematics throughout the country, and will be of great benefit to The Ohio State University.

Myles, if you can review the process, I'd appreciate that.

Dr. Brand:

Yes, I will. The Mathematics Department has a very careful screening process, indeed a model such process. Let me just speak briefly about the selection of Dr. Baker.

In addition to widely advertising the position including affirmative action ads, the Department has an Advisory Committee consisting of 12 persons, 8 of whom are elected by the Department. This Advisory Committee holds open meetings with an advanced agenda announced and the minutes distributed to all the faculty members.

If eight committee members in the Department vote positively by a secret ballot in an open meeting for a motion on documentation, the Committee selects a list of six to eight external referees who are then contacted by the Chairman and asked to evaluate the candidates professional attributes and suitability for the position. When the responses have been obtained from the referees, the Committee then schedules a meeting to determine the suitability of the candidate for appointment.

This Committee meeting is announced in advance to all faculty and the faculty have access to the candidates' credentials including reference letters, and these are made available to all members of the Department. At the Committee session faculty members who are not on the Committee are given ample opportunity to discuss their views of the candidate in this

March 3 and 4, 1988 meeting, Board of Trustees

Dr. Brand: (contd)

open meeting.

When this discussion is completed the Committee votes by secret ballot, either in open meeting or by mail ballot, on the motion to recommend appointment. Eight of the 12 positive votes are required to make a recommendation for appointment.

Regarding the qualifications of Dr. Baker, the University is indeed fortunate to have a man of such eminence. Regarding his scientific credentials, seven leading applied mathematicians, full professors at large centers of applied mathematics of research in this country and abroad, including the University of Minnesota, MIT, Cal Tech, Princeton, the Courant Institute from New York University, University of Arizona, and University of Oxford in England, have provided evaluations of Dr. Baker's research. Uniformly they place him among the strongest computational fluid dynamicists of his generation.

As to international standing, Professor T. Brooke Benjamin of Oxford writes, and let me quote, "Dr. Baker has established an excellent international reputation as a leading contributor to numerical studies in hydrodynamic problems. He is evidently a master of modern computation and unlike other notable workers in the field, his research is greatly reinforced by a deep understanding of the fluid mechanical problems that are explored numerically."

In keeping with the Ohio Eminent Scholar proposal, Dr. Baker has direct connections with industry. At the present time he is employed by Exxon Research. He was a faculty member and director of the multi-disciplinary applied mathematics program at Arizona, and this program includes students and faculty from the entire spectrum of science and engineering departments in the university.

All in all, it's hard to envision a candidate who could more accurately embody the qualities envisioned for the eminent scholar unless it's the same Gregory Baker 10 years hence. I also take serious exception with the claim that there was pressure from the Administration. That is simply false. Time and again, we have emphasized that we will refuse to make an offer unless we have a man or woman of true eminence. We do so in the case of Dr. Baker. The Dean of the College of Mathematical and Physical Sciences, William Kern, and the Chairman of the Math Department are here to answer any questions about process or qualifications that you might have. Thank you.

Mr. Redman:

If there's no further discussion? Thank you, Professor Mityagin.

Professor Mityagin:

Thank you.

March 3 and 4, 1988 meeting, Board of Trustees

Mr. Redman:

Appreciate your presence.

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AMENDMENTS TO THE RULES OF THE UNIVERSITY FACULTY

Resolution No. 88-88

Synopsis: Amendments to rule 3335-5-4815 are being proposed.

WHEREAS the University Senate pursuant to rule 3335-1-09 of the Administrative Code is authorized to recommend through the President to the Board of Trustees the adoption of amendments to the Rules of the University Faculty as approved by the University Senate; and

WHEREAS the proposed changes in the Rules of the University Faculty were approved by the University Senate on January 30, 1988, as follows:

AMENDED RULE

3335-5-4815 Committee on traffic, parking, and public safety.

(A) Membership.

The committee on traffic, parking, and public safety shall consist of seventeen members.

- (1) Six regular faculty elected by the faculty council. The term of service is three years.
- (2) Four students.
 - (a) One graduate student selected by the council of graduate students. The term of service is one year.
 - (b) One professional student selected by the inter-professional council. The term of service is one year.
 - (c) Two undergraduate students selected by the undergraduate student government. The term of service is one year.
- (3) Two staff members (eligible for only "B" parking permits) appointed by the steering committee. The term of service is three years.
- (4) Three administrators appointed by the president. The term of service is three years.
- (5) Two members, non-voting.
 - (a) The assistant vice president for university public safety or designee.
 - (b) The director of the division of traffic and parking.

March 3 and 4, 1988 meeting, Board of Trustees

AMENDMENTS TO THE RULES OF THE UNIVERSITY FACULTY (contd)

(B) Duties and responsibilities.

- (1) Be responsible for hearing grievances, criticism, and other testimony pertaining to traffic, parking, and public safety.
- (2) Recommend through appropriate administrative channels, and to the senate, ways and means for improving traffic and parking conditions, and the administration and enforcement of traffic, parking, and public safety regulations and laws.
- (3) Review, prior to their formal adoption and codification, proposed traffic, parking, and public safety rules and written operational procedures that have an effect on the users of these services. These shall include rules, policies, and university-wide procedures dealing with traffic, parking, personal security, and safety. These shall not include policies relating to the internal operations of university public safety divisions or those issues requiring specific legal, medical, law enforcement, or other expertise.
- (4) Hold at least one publicized annual open hearing to receive information from interested parties with concerns about traffic, parking, and public safety.
- (5) Hold such special hearings as the committee considers necessary when concerns about public safety, traffic, and parking arise in the university community. Reports of such special hearings shall be promptly forwarded through appropriate channels and to the senate.

Balance unchanged.

NOW THEREFORE

BE IT RESOLVED, That the foregoing amendments to the Rules of the University Faculty be adopted as recommended by the University Senate.

Upon motion of Mr. Kessler, seconded by Mr. Teaford, the Board of Trustees adopted the foregoing resolution by unanimous voice vote.

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DISTINGUISHED SERVICE AWARDS

Resolution No. 88-89

Synopsis: Recommendation for eight individuals to receive Distinguished Service Awards is proposed.

WHEREAS the President's Staff, serving as a Committee on Distinguished Service Awards, has nominated and recommended eight individuals for approval by the Board of Trustees to receive the Distinguished Service Award at a time convenient to the University and the recipients:

March 3 and 4, 1988 meeting, Board of Trustees

DISTINGUISHED SERVICE AWARDS (contd)

Raymond S. Bugno
Eugene C. D'Angelo, Jr.
Robert L. Evans
John B. Gerlach
Ruth M. Kessler
Ruth Weimer Mount
Robert W. Wagner
Eva Donelson Wilson

and

WHEREAS these awards are given in recognition of distinguished service to The Ohio State University and the awards are in accordance with action taken by the Board of Trustees in 1952:

NOW THEREFORE

BE IT RESOLVED, That the Distinguished Service Awards be approved for awarding as designated above.

Upon motion of Mrs. Bowser, seconded by Mr. Barone, the Board of Trustees adopted the foregoing resolution by unanimous voice vote.

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DEGREES AND CERTIFICATES - WINTER QUARTER COMMENCEMENT

Resolution No. 88-90

Synopsis: Approval is being requested for awarding degrees and certificates for Winter Quarter Commencement.

WHEREAS pursuant to paragraph (E) of rule 3335-1-06 of the Administrative Code, the Board has authority for the issuance of degrees and certificates; and

WHEREAS the faculties of the colleges and schools shall transmit, in accordance with rule 3335-9-29 of the Administrative Code, for approval by the Board of Trustees the names of persons who have completed degree and certificate requirements:

NOW THEREFORE

BE IT RESOLVED, That the degrees and certificates be conferred on March 18, 1988, to those persons who have completed the requirements for their respective degrees and certificates and are recommended by the colleges and schools, and that the names of those persons awarded degrees and certificates be included in the minutes of this meeting.

Upon motion of Mr. Teaforde, seconded by Mr. Barone, the Board of Trustees adopted the foregoing resolution by unanimous voice vote.

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March 3 and 4, 1988 meeting, Board of Trustees

HONORARY DEGREE

Resolution No. 88-91

Synopsis: Approval is requested for awarding an honorary degree.

WHEREAS pursuant to paragraph (C) of rule 3335-3-03 of the Administrative Code, the President, after consultation with the Steering Committee of the University Senate, recommended to the Board of Trustees awarding of an honorary degree as listed below:

Arno A. Penzias

Doctor of Science

NOW THEREFORE

BE IT RESOLVED, That the above honorary degree be awarded in accordance with the recommendation at a time convenient to the University and the recipient.

Upon motion of Mr. Immke, seconded by Ms. Casto, the Board of Trustees adopted the foregoing resolution by unanimous voice vote.

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PERSONNEL ACTIONS

Resolution No. 88-92

RESOLVED, That the personnel actions as recorded in the Personnel Budget Records of the University since the February 5, 1988 meeting of the Board, including the following Appointments, Leaves of Absence Without Salary, Professional Improvement Leaves, and Emeritus Titles as detailed in the University Budget be approved, and the Medical Staff Appointments/Reappointments approved January 28, 1988, by the Hospitals Board be ratified.

Appointments

Name:	CHARLES F. BENDER
Title:	Director/Professor
Center/Department:	Ohio Supercomputer/Chemistry
Effective:	April 1, 1988
Salary:	\$107,520.00
Present Position:	Director and Professor, Advanced Computational Methods Center and Department of Chemistry, University of Georgia, Athens, GA
Name:	DAVID E. SCHULLER
Title:	Director
Center:	The Arthur G. James Cancer Hospital and Research Institute of The Ohio State University
Effective:	March 15, 1988
Salary:	\$64,440.00
Present Position:	Chairperson and Professor, Department of Otolaryngology, The Ohio State University, Columbus, OH

March 3 and 4, 1988 meeting, Board of Trustees

PERSONNEL ACTIONS (contd)

Appointments (contd)

Name: LUTHER G. TWEETEN
Title: Professor (The Andersons Endowed Chair in Agricultural Marketing, Trade and Policy)
Department/Center: Agricultural Economics and Rural Sociology and Ohio Agricultural Research and Development
Effective: January 1, 1988
Salary: \$85,080.00
Present Position: Professor, Department of Agricultural Economics, Oklahoma State University, Stillwater, OK

Leaves of Absence Without Salary

TIN-LUN (JASON) HO, Assistant Professor, Department of Physics, effective Winter Quarter 1988, to visit the University of Pennsylvania.

JO MARLENE JONES, Assistant Professor, Cooperative Extension Service, effective February 1, 1988 through January 31, 1989, to work on her Ph.D. degree at North Carolina State University.

Professional Improvement Leaves

RICHARD W. BJORNSON, Professor, Department of Romance Languages and Literatures, effective Autumn Quarter 1988, Winter Quarter and Spring Quarter 1989.

HENRY J. SCHMIDT, Professor, Department of German, effective Autumn Quarter 1988 and Winter Quarter 1989.

REUBEN AHRONI, Associate Professor, Department of Judaic and Near Eastern Languages and Literatures, effective Autumn Quarter 1988, Winter Quarter and Spring Quarter 1989.

JERRY M. BIGHAM, Associate Professor, Department of Agronomy, effective August 1, 1988 through July 31, 1989.

GRADY W. CHISM III, Associate Professor, Department of Food Science and Nutrition, effective Autumn Quarter 1988 and Winter Quarter 1989.

ANGELA M. DEAN, Associate Professor, Department of Statistics, effective Autumn Quarter 1988, Winter Quarter and Spring Quarter 1989.

J. RONALD GREEN, Associate Professor, Department of Photography and Cinema, effective Autumn Quarter 1988, Winter Quarter and Spring Quarter 1989.

RONALD E. LAYMON, Associate Professor, Department of Philosophy, effective Autumn Quarter 1988, Winter Quarter and Spring Quarter 1989.

LINDA JAMES MYERS, Associate Professor, Department of Black Studies, effective Autumn Quarter 1988, Winter Quarter and Spring Quarter 1989.

March 3 and 4, 1988 meeting, Board of Trustees

PERSONNEL ACTIONS (contd)

Emeritus Titles

EDWIN E. SMITH, Department of Chemical Engineering, with the title Professor Emeritus, effective October 1, 1987.

BEN E. JACOBY, Department of Obstetrics and Gynecology, with the title Clinical Associate Professor Emeritus, effective March 4, 1988, as an exception to the Rules of the University Faculty, 3335-5-19(C).

GERHARD E. MARTIN, Department of Neurology, with the title Clinical Associate Professor Emeritus, effective March 4, 1988, as an exception to the Rules of the University Faculty, 3335-5-19(C).

Upon motion of Mr. Immke, seconded by Ms. Casto, the Board of Trustees adopted the foregoing resolution by unanimous roll call vote.

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RESOLUTIONS IN MEMORIAM

Resolution No. 88-93

Synopsis: Resolutions honoring the service of nine of the University's faculty members who have recently died are being proposed.

RESOLVED, That the Board adopt the following Resolutions in Memoriam and that the President be requested to convey a copy to the families of the deceased.

Alice D. Edwards

The Board of Trustees of The Ohio State University expresses its sorrow upon the death on December 14, 1987, of Alice D. Edwards, Instructor Emeritus in the Department of English.

Mrs. Edwards was born on July 25, 1911, in Byer, Ohio. She graduated from Kent State University in 1935 with a B.S. in Education and did graduate work in English at The Ohio State University.

Mrs. Edwards taught English and Latin in the schools of Brewster, Ohio, until she joined the English faculty at The Ohio State University in 1946. Upon her retirement in 1972, she was named Instructor Emeritus.

On behalf of the University, the Board of Trustees expresses to the family its deep sympathy and sense of understanding in their loss. It was directed that this resolution be inscribed upon the minutes of the Board of Trustees and that a copy be tendered to the family as an expression of the Board's heartfelt sympathy.

March 3 and 4, 1988 meeting, Board of Trustees

RESOLUTIONS IN MEMORIAM (contd)

Edward J. Hardick

The Board of Trustees of The Ohio State University expresses its sorrow upon the death on February 3, 1988, of Edward J. Hardick, Professor in the Department of Communication.

Dr. Hardick was born on April 24, 1930, in Rochester, New York. He graduated from State University of New York Teachers College at Geneseo with a B.S., and received an M.A. degree from The Ohio State University and a Ph.D. from Michigan State University. Prior to assuming his appointment as Director of the Speech and Hearing Section in the Department of Communication at The Ohio State University, Dr. Hardick was Professor and Associate Director of the Speech and Hearing Clinic at Michigan State University and Director of Aural Rehabilitation Services in the Department of Audiology, School of Medicine, Wayne State University.

Dr. Hardick received many honors during his career. He was a Fellow of the American Speech Language and Hearing Association in 1970 and in 1972 was awarded the Outstanding Alumni Award from the Michigan State University College of Communication Arts Alumni Association. He was President of the Academy of Rehabilitative Audiology in 1974-75 and in 1983 was awarded the Honors of the Academy for service and meritorious contributions to the organization.

Research in the area of aural rehabilitation was the major thrust of Dr. Hardick's career. He authored or wrote several chapters for 3 widely used text books on this topic and numerous articles in the area of amplification and rehabilitation.

Organizations to which Dr. Ed Hardick contributed and was a member include the American Speech Language and Hearing Association; The Michigan Speech and Hearing Association; the Academy of Rehabilitative Audiology; the A.G. Bell Association for the Deaf; and the American Association for the Advancement of Science.

Dr. Hardick was a teacher with genuine concern for his students and was thus instrumental in their success in both the academic and clinical realm. Dr. Hardick contributed significantly to the development of the current Speech-Language and Hearing Clinic, to the Speech and Hearing academic unit he served, and to the quality of The Ohio State University.

On behalf of the University, the Board of Trustees expresses to the family its deep sympathy. It was directed that this resolution be inscribed upon the minutes of the Board of Trustees and that a copy be tendered to the family as an expression of the Board's heartfelt sympathy.

Fred R. Keeler

The Board of Trustees of The Ohio State University expresses its sorrow upon the death on December 2, 1987, of Fred R. Keeler, Instructor Emeritus in the Cooperative Extension Service.

Mr. Keeler was born on October 7, 1895, in Lynchburg, Ohio. He received his B.S. in Agriculture from The Ohio State University in 1918; then

March 3 and 4, 1988 meeting, Board of Trustees

RESOLUTIONS IN MEMORIAM (contd)

Fred R. Keeler (contd)

spent eight years teaching Vocational Agriculture.

Mr. Keeler began his Extension experience when he joined the faculty at The Ohio State University in 1926 as a County Agricultural Agent in Ross County. He continued in this position until his retirement in 1956. Upon his retirement he was named Instructor Emeritus. During his employment with the Cooperative Extension Service, he served as President of the Ohio County Extension Association in 1944. Mr. Keeler was respected by his peers and associates throughout the State as he worked to provide excellent Extension educational programs for the citizens of Ross County.

On behalf of the University community, the Board of Trustees expresses its sympathy and understanding to the family of Mr. Keeler. It was directed that this resolution be inscribed upon the minutes of the Board of Trustees and that a copy be tendered to the family as an expression of the Board's heartfelt sympathy.

Dale H. Magleby

The Board of Trustees of The Ohio State University expresses its sorrow upon the death on December 14, 1987, of Dale H. Magleby, Clinical Instructor in the Department of Radiology.

Dr. Magleby was born on August 16, 1923, in Idaho Falls, Idaho. He received his B.S. degree in 1948 and his A.B. degree in 1949 from the Idaho State College. Dr. Magleby served in the U.S. Army from 1943 to 1946.

Dr. Magleby graduated from George Washington University College of Medicine in 1953, served a year of internship at the Memorial Hospital in Phoenix, Arizona, from 1953 to 1954, and three years of residency in the Department of Radiology at The Ohio State University. He became a Diplomate of the American College of Radiology in 1957.

Dr. Magleby entered private practice at Mt. Carmel Hospital in Columbus where he was the Director of Radiology for the past 15 years. Dr. Magleby kept his faculty appointment as a Clinical Instructor in the Department of Radiology of The Ohio State University College of Medicine and participated in the didactic activities of Radiology at The Ohio State University and also at Mt. Carmel Hospital where a significant number of medical students, interns and residents are rotating in clinical services. Dr. Magleby was a member of the American Medical Association; the American College of Radiology; the Radiological Society of North America; the Franklin County Academy of Medicine; and the Central Ohio Radiological Society.

Dr. Magleby will be missed by his professional colleagues and his many friends in the University and the radiological community particularly in Central Ohio.

On behalf of the University, the Board of Trustees expresses to the family its deep sympathy. It was directed that this resolution be

March 3 and 4, 1988 meeting, Board of Trustees

RESOLUTIONS IN MEMORIAM (contd)

Dale H. Magleby (contd)

inscribed upon the minutes of the Board of Trustees and that a copy be tendered to the family as an expression of the Board's heartfelt sympathy.

William Molnar

The Board of Trustees of The Ohio State University expresses its sorrow upon the death on December 7, 1987, of William Molnar, Professor Emeritus in the Department of Radiology.

Professor William Molnar was born in Iglo, Hungary, on May 1, 1915. He graduated with an M.D. degree from the University of Budapest, Hungary, in 1942 and worked as a radiologist at the Nationalized Health Institute. Professor Molnar emigrated to the United States in 1950 and worked in the Department of Radiology at the Massachusetts Memorial Hospital in Boston from 1950 to 1951, and as an Instructor in Radiology at the Boston University School of Medicine from 1952 to 1954. He joined The Ohio State University in July 1954 as an Assistant Professor of Radiology. In 1957, he was promoted to Associate Professor and in 1961 to Professor. Upon his retirement in 1981, he was named Professor Emeritus.

During his long service as a Professor, Dr. Molnar contributed greatly in the teaching and clinical activities of the Department. His greatest contributions were made in the area of angiocardiography including coronary arteriography, as well as in radiological interventional procedures. His contributions were nationally acknowledged and published in several national peer review journals in more than 50 scientific publications. Some of his students serve as professors in several universities across the country.

Professor Molnar was a member of many professional societies among them the American Medical Association; the Ohio State Medical Association; the North American Radiological Society; the Franklin County Medical Society; and the Central Ohio Radiological Society. He was a Fellow of the American College of Radiology.

The Department of Radiology pays tribute to Professor William Molnar's many innovative contributions in the field of Radiology and to his many years of teaching particularly in the area of cardiovascular radiology.

On behalf of the University community, the Board of Trustees expresses to the family its deep sympathy and sense of understanding in their loss. It was directed that this resolution be inscribed upon the minutes of the Board of Trustees and that a copy be tendered to the family as an expression of the Board's heartfelt sympathy.

Enid C. Moore

The Board of Trustees of The Ohio State University expresses its sorrow upon the death on January 16, 1988, of Enid C. Moore, Instructor Emeritus in the Cooperative Extension Service.

March 3 and 4, 1988 meeting, Board of Trustees

RESOLUTIONS IN MEMORIAM (contd)

Enid C. Moore (contd)

Mrs. Moore was born on September 3, 1907, in Baltimore, Ohio. She received her B.A. in Home Economics Education from Otterbein College in 1929; then spent five years as a Home Economics teacher in Wayne County, Ohio. From 1935 to 1939, she worked as a W.P.A. County Supervisor in Fairfield County. She spent eight years as a home supervisor for the Farmers Home Administration and Farm Security Administration serving Athens, Hocking, and Vinton Counties.

Mrs. Moore began her Extension experience when she joined the faculty at The Ohio State University in 1947 as a County Extension Agent, Home Economics in Scioto County. Mrs. Moore continued in this position until her retirement in 1975.

The National Association of Extension Home Economists presented Mrs. Moore the Florence Hall Award in 1966, for outstanding work in the delivery of home economics programs. She was a member of the American Association of University Women and the Soroptimist Club of Portsmouth, serving as President in 1973.

Mrs. Moore's contributions in providing excellent Extension educational programs during her career earned her the respect and admiration of her co-workers and many thousands of Ohio citizens throughout the length and breadth of Scioto County.

On behalf of the University community, the Board of Trustees expresses its sympathy and understanding to the family of Mrs. Moore. It was directed that this resolution be inscribed upon the minutes of the Board of Trustees and that a copy be tendered to the family as an expression of the Board's heartfelt sympathy.

Ralph S. Paffenbarger

The Board of Trustees of The Ohio State University expresses its sorrow upon the death on January 21, 1988, of Ralph S. Paffenbarger, Professor Emeritus in the Department of Engineering Graphics.

Professor Paffenbarger was born April 25, 1894, in McArthur, Ohio. He completed his B.S. in Electrical Engineering in 1915, B.S. of Industrial Engineering in 1928, and M.S. in 1930 from The Ohio State University.

Professor Paffenbarger served as an Instructor of the Department of Engineering Drawing in October 1919; was promoted to Assistant Professor in 1923; to Associate Professor in 1930; and received the rank of Professor in 1936.

On July 1, 1944, he was appointed as Chairman of the Department of Engineering Drawing where he served as Chairman until his retirement in 1964. Upon his retirement he was named Professor Emeritus. In addition to his administrative and teaching duties he helped design and made the first seating plan for the Ohio Stadium prior to its dedication in 1922. He officiated at Ohio State track meets from the time Jesse Owens ran until well after his retirement, serving as Head Judge for most of those years. He co-authored numerous editions of college textbooks on

March 3 and 4, 1988 meeting, Board of Trustees

RESOLUTIONS IN MEMORIAM (contd)

Ralph S. Paffenbarger (contd)

engineering drawing. In 1977, he received the Distinguished Service Award for his dedication to the University.

Professor Paffenbarger was a member and secretary of The Ohio State University Athletic Board. He was a member and past president of the Columbus Rotary Club and The Ohio State University Faculty Club. He also was Past Commander of the American Legion and Past Master of University Lodge No. 631 F&AM where he served as secretary for many years. He was also a member of the Executives Council of Tau Beta Pi, the engineering honorary.

His professional organizations included American Society for Engineering Education where he served on various committees from 1944 through 1964. In 1956, he received the Distinguished Service Award for the Engineering Drawing Division of ASEE.

On behalf of the University community, the Board of Trustees expresses to the family its deepest sympathy. It was directed that this resolution be inscribed upon the minutes of the Board of Trustees and that a copy be tendered to the family as an expression of the Board's heartfelt sympathy.

Charles Roger Smith

The Board of Trustees of The Ohio State University expresses its sorrow upon the death on December 31, 1987, of Charles Roger Smith, Dean Emeritus in the College of Veterinary Medicine.

Born in 1918 Hartville, Ohio, Dr. Smith attended Ohio Univeristy, and received his D.V.M. (1944), M.Sc. (1946) and Ph.D. (1953) from The Ohio State University. He began teaching at the veterinary college in 1944, and became Chairman of its Department of Physiology and Pharmacology in 1957. In 1969, Dr. Smith was named Director of the Office of Veterinary Medicine Education, a position he held until becoming Dean in 1973. Dr. Smith retired as Dean in 1980, but continued teaching part-time at the College until his death. Upon his retirement he was named Dean Emeritus.

Dr. Smith was a Charter Diplomate of the American College of Veterinary Internal Medicine (cardiology) and a Fellow of the American College of Veterinary Pharmacology and Therapeutics. He gained national and international recognition as an authority on comparative mammalian cardiovascular physiology and for his studies on the biology of the heart and cardiovascular diseases.

During his career, Dr. Smith published more than 100 scientific articles and wrote several textbook chapters. He was named the Ohio Veterinarian of the Year in 1979 and was presented with the College of Veterinary Medicine's Distinguished Alumnus Award in 1981.

On behalf of the University, the Board of Trustees expresses to the family of Dr. Charles Roger Smith its deep sympathy and sense of understanding in their loss. It was directed that this resolution be inscribed upon the minutes of the Board of Trustees and that a copy be tendered to the family as an expression of the Board's heartfelt sympathy.

March 3 and 4, 1988 meeting, Board of Trustees

RESOLUTIONS IN MEMORIAM (contd)

Donald V. Unverferth

The Board of Trustees of The Ohio State University expresses its sorrow upon the death on January 8, 1988, of Donald V. Unverferth, The James Hay and Ruth Jansson Wilson Professor in Cardiology and Assistant Director for Research Affairs, Division of Cardiology in the Department of Internal Medicine.

Dr. Unverferth was born on April 21, 1944, in Dayton, Ohio, where he spent the early years of his life. He attended The Ohio State University and was awarded a Bachelor of Science degree in 1966 and Doctor of Medicine in 1970. He served in the military from 1971 until 1973.

During his undergraduate days he was known by many for his outstanding performance as quarterback of the Ohio State football team from 1963 to 1965.

Dr. Unverferth completed his medical internship and residency at Ohio State, held a cardiology fellowship, and served as chief resident before joining The Ohio State University faculty in 1978.

In 1987, he was named to The James Hay and Ruth Jansson Wilson Professorship in Cardiology. He was the first to hold the position which was established for the purpose of honoring a distinguished cardiologist working in research, education, and disease prevention. Dr. Unverferth's work involved research on congestive heart failure, particularly cardiomyopathy, a sickness of the heart muscle.

Dr. Unverferth has authored numerous publications and was a fellow and member of several professional societies and university committees. Throughout his life, he actively devoted his time to professional and civic endeavors. He is especially remembered for his dedication and outstanding achievements in research and his outstanding attributes as a teacher and clinician.

On behalf of the University, the Board of Trustees expresses to the family its deep sympathy and sense of understanding in their loss. It was directed this resolution be inscribed upon the minutes of the Board of Trustees and that a copy be tendered to the family as an expression of the Board's heartfelt sympathy.

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REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS

Resolution No. 88-94

Synopsis: The reports on contracts, grants, and gifts and the summary for January 1988 are presented for Board acceptance.

WHEREAS monies are solicited and received on behalf of the University from governmental, industrial, other agencies, alumni, and various individuals in support of research, instructional activities, and service; and

March 3 and 4, 1988 meeting, Board of Trustees

REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)

WHEREAS such gifts and grants are received through The Ohio State University Research Foundation, the Engineering Experiment Station of The Ohio State University, and The Ohio State University Development Fund:

NOW THEREFORE

BE IT RESOLVED, That the research agreement between The Ohio State University and The Ohio State University Research Foundation for the contracts and grants reported herein, and the acceptance of the reports from the Engineering Experiment Station and The Ohio State University Development Fund during the month of January 1988 be approved.

Upon motion of Mr. Teaford, seconded by Mr. Kessler, the Board of Trustees adopted the foregoing resolution by unanimous voice vote.

SUMMARY FOR JANUARY 1988

Source	No. of Projects	Support Level
The Ohio State University Research Foundation	101	\$7,343,482.58
Engineering Experiment Station	51	\$ 775,484.00
Total	152	\$8,118,966.58

The Ohio State University Development Fund

Establishment of Named Funds

Edward Montgomery, Jr., Scholarship Fund (Scholarships - The Ohio State University Marching Band)	\$ 110,000.00
The Scott A. Webb Loan Fund (Loans)	\$ 97,974.00
The Ethel Manley Long Fund (Programs and special events of the Wexner Center for the Visual Arts)	\$ 25,000.00
The Frank Clarke Long, Sr., Memorial Cancer Research Fund (Cancer research)	\$ 25,000.00
The Dean W. and Ruth Jeffers Cancer Research Endowment Fund (Cancer research)	\$ 23,500.00
Frederick P. Zuspan Lectureship (Sponsor an annual lecture series in obstetrics and gynecology)	\$ 18,000.00

March 3 and 4, 1988 meeting, Board of Trustees

REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)

SUMMARY FOR JANUARY 1988 (contd)

The Ohio State University Development Fund (contd)

Establishment of Named Funds (contd)

INONA (Fund) Scholarships	\$ 15,000.00*
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The Tom H. and Ellen M. Robinson Crop Improvement Fund (Fund basic agronomic research in developing new or improved agronomic crops)	\$ 8,000.00
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Change of Name and Description of Named Fund

From:	The Ward, Kaps and Perry Scholarship Fund
To:	The Ward-Bloomfield Scholarship Fund

*Funds through the estate of Edward G. Lawton (\$15,000) are being distributed through the Attorney General's office. The funds will be released when the endowment description has been approved by the Board of Trustees.

March 3 and 4, 1988 meeting, Board of Trustees

REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)

THE OHIO STATE UNIVERSITY RESEARCH FOUNDATION

Report - January 1988

Federal Research Contracts/Grants

\$450,351.00 - Department of Education, Office of Postsecondary Education, Washington, D.C., Academic Facilities Program, Department of Biochemistry (G. A. Marzluf), University Libraries (W. J. Studer), Department of Communication (D. M. Dell), School of Natural Resources (C. B. Davis), and Research and Graduate Studies Administration (J. M. Hollander), 1 December 1987 through 31 July 1988. (Project 766521 - New)

\$363,952.00 - Department of Education, Office of Educational Research and Improvements, Washington, D.C., ERIC Clearinghouse on Adult, Career, and Vocational Education, The National Center for Research in Vocational Education (R. D. Ryan), 2 January 1988 through 31 December 1988. (Project 766522 - Continuation)

\$360,000.00 - Department of the Navy, Office of Naval Research, Arlington, Virginia, Joint Services Electronics Program (JSEP), Department of Electrical Engineering, ElectroScience Laboratory (L. Peters, Jr., P. H. Pathak, E. H. Newman, R. T. Compton and N. N. Wang), 1 October 1987 through 30 September 1988. (Project 766541 - Continuation)

\$315,255.00 - Department of Education, Office of Educational Research and Improvements, Washington, D.C., Operation of an Educational Resources Information Center (ERIC) Clearinghouse on Science, Mathematics, and Education, Department of Educational Studies: Humanities, Science, Technological and Vocational (R. W. Howe), 1 January 1988 through 31 December 1988. (Project 766518 - Continuation)

\$200,055.90 - Department of Agriculture, Science and Education, Peoria, Illinois, Cooperative Agricultural Research, Office of the Director - OARDC (H. R. Conrad and R. F. Edwards), 1 October 1987 through 30 September 1988. (Project 766472 - Continuation)

\$196,000.00 - Department of Health and Human Services, Public Health Service, National Institutes of Health, Bethesda, Maryland, Image Processing Equipment, Department of Surgery (J. F. Cornhill and S. R. Simon), College of Medicine - Administration (D. L. Fry), and Department of Otolaryngology (D. J. Lim), 11 January 1988 through 10 January 1989. (Project 766542 - New)

\$150,000.00 - National Science Foundation, Washington, D.C., Glaciological and Climatological Analysis of the Past 2000 Years from Antarctic Ice Cores, Byrd Polar Research Center (E. Mosley-Thompson and L. G. Thompson), 1 July 1988 through 31 December 1988. (Project 764798 - Continuation)

\$132,028.00 - Department of the Air Force, Air Force Systems Command, Bolling Air Force Base, D.C., In-Situ Laser Activation of Electrochemical Charge Transfer Kinetics, Department of Chemistry (R. L. McCreery), 1 December 1987 through 30 November 1988. (Project 766526 - New)

March 3 and 4, 1988 meeting, Board of Trustees

REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)

THE OHIO STATE UNIVERSITY RESEARCH FOUNDATION (contd)

Federal Research Contracts/Grants (contd)

\$131,300.00 - National Science Foundation, Washington, D.C., Emission Line Regions of Active Nuclei and Classical Novae, Department of Astronomy (G. J. Ferland), 1 June 1988 through 30 November 1991. (Project 766540 - New)

\$128,691.00 - Department of Health and Human Services, Public Health Service, National Institutes of Health, Bethesda, Maryland, B(a)P-Metabolism and Modification of DNA in Human Skin Xenograft, Department of Physiological Chemistry and Comprehensive Cancer Center (G. E. Milo), 15 January 1988 through 31 December 1988. (Project 766549 - New)

\$121,697.00 - Department of the Air Force, Air Force Systems Command, Wright-Patterson Air Force Base, Ohio, Thermodynamic and Diffusivity Measurements in Potential Ultra-High Temperature Composite Materials, Department of Ceramic Engineering (J. D. Cawley) and Department of Metallurgical Engineering (G. R. St. Pierre), 1 October 1987 through 30 September 1988. (Project 766346 - Continuation)

\$120,000.00 - Department of Agriculture, Science and Education, Washington, D.C., Regulation of Porcine Preadipocyte Growth and Use for Clone Production, Department of Animal Science - OARDC and Department of Animal Science (T. G. Ramsay and M. E. White), 15 September 1987 through 30 September 1990. (Project 766544 - New)

\$120,000.00 - Department of the Air Force, Air Force Systems Command, Wright-Patterson Air Force Base, Ohio, Modeling Cumulative Damage Processes in Composite Laminates, Department of Civil Engineering (R. S. Sandhu), 1 October 1987 through 30 September 1988. (Project 764779 - Continuation)

\$111,334.00 - National Science Foundation, Washington, D.C., Presidential Parties in 1988 Electoral Politics, Department of Political Science (J. H. Kessel and W. G. Jacoby), 1 February 1988 through 31 January 1990. (Project 766571 - New)

\$111,000.00 - National Science Foundation, Washington, D.C., Structure, Dynamic Behavior, and Synthesis of Selected Solvated Carbanionic Substances, Department of Chemistry (G. A. Fraenkel), 1 December 1987 through 31 May 1989. (Project 765472 - Continuation)

\$104,046.00 - Department of Education, Office of Special Education and Rehabilitation Services, Washington, D.C., Preservice Training for Ohio School Psychologists to Provide Related Services Promoting Placement in the Least Restrictive Environment for Students Who are Severely Handicapped, College of Education - Administration (T. M. Stephens), 1 June 1988 through 31 May 1989. (Project 766059 - Continuation)

\$99,905.00 - Department of the Navy, Office of Naval Research, Arlington, Virginia, Mixing in Supersonic Shear Layers, Department of Mechanical Engineering (M. Samimy), 1 February 1988 through 31 January 1990. (Project 765931 - Continuation)

March 3 and 4, 1988 meeting, Board of Trustees

REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)

THE OHIO STATE UNIVERSITY RESEARCH FOUNDATION (contd)

Federal Research Contracts/Grants (contd)

\$96,188.00 - National Science Foundation, Washington, D.C., Knowledge Aided Architectural Problem Solving and Design, School of Architecture (C. I. Yessios), 1 March 1988 through 30 November 1988. (Project 765681 - Continuation)

\$95,000.00 - Department of Transportation, National Highway Traffic Safety Administration, East Liberty, Ohio, Free Flight Composite Head Development, Department of Mechanical Engineering (J. A. Collins), 1 January 1988 through 31 December 1988. (Project 765776 - Continuation)

\$95,000.00 - Department of the Air Force, Air Force Systems Command, Wright-Patterson Air Force Base, Ohio, Controller Design Approaches and Evaluations, Department of Electrical Engineering (U. Ozguner and S. Yurkovich), 5 December 1987 through 31 August 1988. (Project 766464 - Continuation)

\$87,303.00 - Department of Health and Human Services, Public Health Service, National Institutes of Health, Bethesda, Maryland, Biochemistry of Natural Products, Biotechnology Programs (P. E. Kolattukudy), 1 January 1988 through 31 March 1988. (Project 766224 - Continuation)

\$84,113.00 - Department of Health and Human Services, Public Health Service, National Institutes of Health, Bethesda, Maryland, Cooperative Human Tissue Network, Comprehensive Cancer Center and Department of Pathology (K. Clausen) and Comprehensive Cancer Center and Department of Physiological Chemistry (R. W. Trewyn), 1 January 1988 through 31 March 1988. (Project 765857 - Continuation)

\$80,861.00 - National Aeronautics and Space Administration, Ames Research Center, Moffett Field, California, Discrete Control Modeling of Computer-Aided Control of Strongly Interactive Systems, Department of Industrial and Systems Engineering (R. A. Miller) and Department of Psychology (R. J. Jagacinski), 1 January 1987 through 31 December 1987. (Project 763264 - Continuation)

\$74,300.00 - National Science Foundation, Washington, D.C., Structural Relaxation in Oxide Glasses, Department of Ceramic Engineering (P. K. Gupta), 1 February 1988 through 31 January 1989. (Project 766572 - New)

\$69,872.00 - National Aeronautics and Space Administration, Lewis Research Center, Cleveland, Ohio, Adaptive Arrays for Satellite Communication, Department of Electrical Engineering, ElectroScience Laboratory (I. J. Gupta and E. K. Walton), 1 January 1988 through 20 July 1988. (Project 764040 - Continuation)

\$69,843.00 - National Science Foundation, Washington, D.C., Proto Miwok and Proto Costanoan Reconstruction, Department of Linguistics (C. A. Callaghan), 1 April 1988 through 30 June 1990. (Project 765071 - Continuation)

March 3 and 4, 1988 meeting, Board of Trustees

REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)

THE OHIO STATE UNIVERSITY RESEARCH FOUNDATION (contd)

Federal Research Contracts/Grants (contd)

\$67,500.00 - National Science Foundation, Washington, D.C., Raman and Spatially Resolved Spectroelectrochemistry, Department of Chemistry (R. L. McCreery), 1 January 1988 through 30 June 1989. (Project 764803 - Continuation)

\$65,081.00 - Department of Health and Human Services, Public Health Service, National Institutes of Health, Bethesda, Maryland, Southwest Oncology Group, Department of Internal Medicine (S. P. Balcerzak), 1 January 1988 through 31 March 1988. (Project 761094 - Continuation)

\$65,044.00 - National Science Foundation, Washington, D.C., Natural Convection in Enclosures, Department of Mechanical Engineering (S. A. Korpela) and Department of Physics (C. D. Andereck), 1 July 1988 through 30 June 1989. (Project 765154 - Continuation)

\$62,500.00 - National Science Foundation, Washington, D.C., Presidential Young Investigator Award, Department of Physics (C. Jayaprakash), 1 January 1988 through 31 December 1988. (Project 764850 - Continuation)

\$59,970.00 - National Aeronautics and Space Administration, Langley Research Center, Hampton, Virginia, Decentralized Control and Identification Experiments for the NASA Langley Research Center SCOLE (Spacecraft Control Laboratory Experiment Program), Department of Electrical Engineering (U. Ozguner and S. Yurkovich), 1 January 1988 through 31 December 1988. (Project 765807 - Continuation)

\$50,000.00 - Department of Energy, Argonne, Illinois, Geochemistry of Small Tundra Drainage Basins in Response to Active Layer Disturbance, Byrd Polar Research Center and Department of Agronomy (K. R. Everett), 1 January 1988 through 31 December 1988. (Project 764231 - Continuation)

\$50,000.00 - Department of the Army, Army Materiel Command, Dover, New Jersey, Synthesis of Polynitro Cage Molecules, Department of Chemistry (L. A. Paquette), 1 November 1987 through 29 April 1988. (Project 765379 - Continuation)

\$49,988.00 - National Science Foundation, Washington, D.C., The Biology of Mixed-Species Foraging Groups: An Experimental Approach, Department of Zoology (T. C. Grubb), 15 January 1988 through 30 June 1989. (Project 766535 - New)

\$47,515.00 - National Science Foundation, Washington, D.C., Cenozoic Micropaleontology and Biostratigraphy of the Victoria Land Basin, Byrd Polar Research Center and Department of Geology and Mineralogy (P. N. Webb), 1 June 1988 through 31 May 1989. (Project 766547 - Continuation)

\$36,122.00 - Department of Health and Human Services, Public Health Service, National Institutes of Health, Bethesda, Maryland, Hypertension and Congestive Heart Failure: Genetic Model, Department of Food Science and Nutrition - OARDC and Department of Food Science and Nutrition (S. A. McCune), 1 December 1987 through 28 February 1988. (Project 766383 - Continuation)

March 3 and 4, 1988 meeting, Board of Trustees

REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)

THE OHIO STATE UNIVERSITY RESEARCH FOUNDATION (contd)

Federal Research Contracts/Grants (contd)

\$34,944.00 - National Aeronautics and Space Administration, Lewis Research Center, Cleveland, Ohio, Studies in Electromagnetic Scattering, Department of Electrical Engineering, ElectroScience Laboratory (P. H. Pathak), 1 January 1988 through 30 June 1988. (Project 763822 - Continuation)

\$34,585.00 - National Science Foundation, Washington, D.C., Glacial Geology of the Ice Fields of the East Antarctic Ice Sheet, Near Allan Hills, Victoria Land, Byrd Polar Research Center and Department of Geology and Mineralogy (G. Faure), 1 January 1988 through 31 December 1988. (Project 766546 - Continuation)

\$33,094.00 - National Science Foundation, Washington, D.C., Structure, Biosynthesis, and Degradation of the Biopolymers Cutin and Suberia, Biotechnology Programs (P. E. Kolattukudy), 1 July 1987 through 31 May 1988. (Project 766545 - New)

\$30,046.00 - Department of the Air Force, Air Force Systems Command, Wright-Patterson Air Force Base, Ohio, Theoretical Approach to Analysis and Design of Efficient Reduced-Controls for Space Structures, Department of Aeronautical and Astronautical Engineering (H. A. Oz), 1 October 1987 through 30 September 1988. (Project 765624 - Continuation)

\$27,787.00 - National Science Foundation, Washington, D.C., A Workshop to Examine the Application of Scientific Drilling to the Solution of Antarctic Earth-Science Objectives, Byrd Polar Research Center and Department of Geology and Mineralogy (P. N. Webb), 1 January 1988 through 31 December 1988. (Project 766550 - New)

\$27,620.00 - Department of Health and Human Services, Public Health Service, National Institutes of Health, Bethesda, Maryland, Structure of Ribosomal 5S RNA and 5.8S RNA, Department of Chemistry (A. G. Marshall), 1 January 1988 through 31 March 1988. (Project 762523 - Continuation)

\$26,767.00 - Department of Health and Human Services, Public Health Service, National Institutes of Health, Bethesda, Maryland, Neural Control of Human Intestinal Mucosa, Department of Physiology (H. J. Cooke), 1 January 1988 through 31 March 1988. (Project 765037 - Continuation)

\$20,911.00 - Department of the Army, Army Materiel Command, Fort Monmouth, New Jersey, Computer Communication Protocols for Advanced Communication Systems, Department of Computer and Information Science (M. T. Liu), 21 December 1987 through 31 March 1988. (Project 765838 - Continuation)

\$20,000.00 - National Aeronautics and Space Administration, Lewis Research Center, Cleveland, Ohio, Documentation of Ice Shapes for the Helicopter Icing Flight Test Program, Department of Aeronautical and Astronautical Engineering (J. D. Lee), 1 March 1988 through 30 November 1988. (Project 763362 - Continuation)

March 3 and 4, 1988 meeting, Board of Trustees

REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)

THE OHIO STATE UNIVERSITY RESEARCH FOUNDATION (contd)

Federal Research Contracts/Grants (contd)

\$18,996.00 - Department of Health and Human Services, Public Health Service, National Institutes of Health, Bethesda, Maryland, Regulation of Splicing of Drosophila MLC-ALK Pre-mRNA, Department of Molecular Genetics (S. Falkenthal and B. G. Leicht), 1 February 1988 through 31 January 1989. (Project 766565 - New)

\$16,000.00 - Department of State, Washington, D.C., Adaptation of Media for Use in Biosphere Reserves, Department of Natural Resources - OARDC and School of Natural Resources (C. B. Davis, G. W. Mullins and R. W. Fortner), 1 November 1987 through 30 September 1988. (Project 766103 - Continuation)

\$15,000.00 - Department of the Army, Army Tank Automotive Command, Warren, Michigan, A Mobility System Design Study for an Agile Automatic Land Vehicle, Department of Mechanical Engineering (K. J. Waldron) and Department of Electrical Engineering (C. A. Klein), 1 January 1988 through 31 March 1988. (Project 764306 - Continuation)

\$9,144.00 - Department of Education, Office of Postsecondary Education, Washington, D.C., National Resource Center for Slavic and East European Studies, Department of Slavic and East European Languages and Literatures (L. I. Twarog), 15 August 1987 through 14 August 1988. (Project 765593 - Continuation)

\$5,490.00 - National Science Foundation, Washington, D.C., Reconstruction of the Transantarctic Mountains Foreland Basin, Byrd Polar Research Center and Department of Geology and Mineralogy (J. W. Collinson), 10 December 1987 through 31 December 1988. (Project 766551 - New)

TOTAL - FEDERAL AWARDS **\$4,842,198.90**

State of Ohio Research Contracts/Grants

\$140,471.00 - State of Ohio, Department of Health, Columbus, Ohio, OSU High Risk Perinatal Project -- Care of the High Risk Mother and Infant, Department of Pediatrics (L. Cordero), 1 October 1987 through 30 September 1988. (Project 765042 - Continuation)

\$55,087.00 - State of Ohio, Department of Natural Resources, Columbus, Ohio, Establishment of a Fairport Harbor Facility, Department of Zoology (T. A. Bookhout), 1 April 1988 through 30 June 1988. (Project 766201 - Continuation)

\$32,715.00 - State of Ohio, Department of Natural Resources, Columbus, Ohio, Evaluation of Fish Management Techniques, Department of Zoology (T. A. Bookhout), 1 January 1988 through 31 December 1988. (Project 766202 - Continuation)

\$20,000.00 - State of Ohio, Department of Mental Retardation and Developmental Disabilities, Columbus, Ohio, Strategies for Developing and Implementing Preservice Curriculum for Trainers and Facilitators of Employment Opportunities for Persons with Developmental Disabilities in

March 3 and 4, 1988 meeting, Board of Trustees

REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)

THE OHIO STATE UNIVERSITY RESEARCH FOUNDATION (contd)

State of Ohio Research Contracts/Grants (contd)

Ohio, Nisonger Center (D. Cavin) and Department of Education Services and Research (B. Growick), 1 January 1988 through 31 December 1988. (Project 766564 - New)

\$6,500.00 - State of Ohio, Department of Natural Resources, Columbus, Ohio, Evaluation of Fish Management Techniques, Department of Zoology (T. A. Bookhout), 1 January 1988 through 31 December 1988. (Project 766202 - Continuation)

\$6,362.00 - State of Ohio, Ohio Arts Council/Ohio Humanities Council Joint Program, Columbus, Ohio, A Multi-Media Renaissance Theatre and T.V. Production of A Comedy of Betrothal, Department of Theatre (A. S. Golding), 15 January 1988 through 31 July 1988. (Project 766563 - New)

\$5,434.00 - State of Ohio, Department of Human Services, Columbus, Ohio, Child Abuse Prevention, College of Medicine - Administration (G. L. Trzebiatowski), 4 January 1988 through 31 March 1988. (Project 766527 - New)

\$2,796.11 - State of Ohio, Department of Health, Columbus, Ohio, Impact of Rape Education Strategies on College Students, Center for Women's Studies (M. M. Fonow) and Department of Sociology (L. W. Richardson), 1 October 1986 through 31 December 1987. (Project 765817 - Continuation)

\$2,000.00 - State of Ohio, Ohio Arts Council, Columbus, Ohio, Patricia Herban Consultancy -- Organizational Development, Department of Textiles and Clothing (L. R. Sibley), 1 November 1987 through 29 February 1988. (Project 766554 - New)

\$614.52 - State of Ohio, Department of Education, Columbus, Ohio, Southwest Vocational Education Personnel Development Regional Center, Department of Agricultural Education (R. K. Barrick and L. H. Newcomb), Department of Educational Policy and Leadership (A. J. Miller) and Department of Home Economics Education (S. V. Redick), 1 July 1987 through 30 June 1988. (Project 766226 - Continuation)

\$354.00 - State of Ohio, Ohio Arts Council, Columbus, Ohio, Publication Support for "The Journal: The Literary Magazine of Ohio State University," Department of English (D. J. Citino), 1 October 1987 through 30 September 1988. (Project 766160 - Continuation)

TOTAL - STATE OF OHIO AWARDS \$ 272,333.63

Industrial Research Contracts/Grants

\$150,000.00 - The Procter and Gamble Company, Cincinnati, Ohio, The Physicochemical Characterization of Membrane Lipids Using Time-Resolved X-ray Diffraction, Department of Chemistry (M. Caffrey and D. W. Meek), 1 October 1987 through 30 September 1990. (Project 766529 - New)

\$95,000.00 - Ross Laboratories, Columbus, Ohio, Maximizing Yield of Specific Antibody in Mammary Secretion of Lactating Dairy Cows,

March 3 and 4, 1988 meeting, Board of Trustees

REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)

THE OHIO STATE UNIVERSITY RESEARCH FOUNDATION (contd)

Industrial Research Contracts/Grants (contd)

Department of Dairy Science - OARDC (K. L. Smith), 1 January 1988 through 31 December 1988. (Project 765238 - Continuation)

\$80,000.00 - Wyeth Laboratories, Philadelphia, Pennsylvania, An Open-Label Study of the Effects of Anaritide on Central Hemodynamics and Regional Blood Flow in Patients with Severe, Decompensated Congestive Heart Failure, Department of Internal Medicine (P. F. Binkley), 1 November 1987 through 31 May 1989. (Project 766556 - New)

\$73,626.65 - Abbott Laboratories, Abbott Park, Illinois, A Comparative Study of Polymer Coated Erythromycin Versus Doxycycline in the Treatment of Chlamydia Trachomatis Genital Infections, College of Pharmacy (J. A. Visconti) and University Health Service (D. I. Charles), 27 January 1988 through 26 January 1989. (Project 766570 - New)

\$62,500.00 - E. R. Squibb and Sons, Princeton, New Jersey, Effect of SQ29,852 on Blood Pressure in Patients with Mild to Moderate Hypertension, Department of Family Medicine (R. M. Guthrie) and Department of Pharmacology (N. Gerber), 1 December 1987 through 14 December 1988. (Project 765696 - New)

\$53,874.00 - Universal Energy Systems, Inc., Dayton, Ohio, Demonstration of Parallel Computation for a 3D-Rigid Viscoplastic Finite Element Method, Department of Computer and Information Science (K. Schwan, P. Sadayappan and B. Weide) and Department of Electrical Engineering (F. E. Ozguner), 1 October 1987 through 18 July 1988. (Project 765894 - Continuation)

\$49,975.00 - Astra Alab AB, Sodertalje, Sweden, Novel Drug Delivery Systems, College of Pharmacy (S. Frank), 1 January 1988 through 31 December 1988. (Project 762165 - Continuation)

\$38,920.00 - Parexel International Corporation, Cambridge, Massachusetts, A Double-Blind, Placebo-Controlled Study with Open-Label Follow-Up to Determine the Safety and Efficacy of r-HuEPO, Administered Subcutaneously, in Chronic Anemia Induced by Advanced Cancer, Department of Internal Medicine (J. J. Rinehart and P. L. Triozzi), 1 January 1988 through 31 December 1988. (Project 766558 - New)

\$38,920.00 - Parexel International Corporation, Cambridge, Massachusetts, A Double-Blind, Placebo-Controlled Study to Determine the Safety and Efficacy of r-HuEPO via Subcutaneous Administration in Patients with Anemia Secondary to Advanced Cancer and Aggressive Cyclic Chemotherapy, Department of Internal Medicine (J. J. Rinehart and P. L. Triozzi), 1 January 1988 through 31 December 1988. (Project 766559 - New)

\$38,920.00 - Parexel International Corporation, Cambridge, Massachusetts, A Double-Blind, Placebo-Controlled Study to Determine the Effect of Subcutaneous r-HuEPO in Patients with Chronic Anemia Secondary to Cisplatin Chemotherapy, Department of Internal Medicine (J. J. Rinehart and P. L. Triozzi), 1 January 1988 through 31 December 1988. (Project 766560 - New)

March 3 and 4, 1988 meeting, Board of Trustees

REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)

THE OHIO STATE UNIVERSITY RESEARCH FOUNDATION (contd)

Industrial Research Contracts/Grants (contd)

\$38,920.00 - Parexel International Corporation, Cambridge, Massachusetts, A Double-Blind, Placebo-Controlled Study with Open-Label Follow-Up to Determine the Safety and Efficacy of r-HuEPO in AIDS Patients with Anemia Induced by Their Disease and AZT Therapy, Department of Internal Medicine (J. J. Rinehart and P. L. Triozzi), 1 January 1988 through 31 December 1988. (Project 766561 - New)

\$38,920.00 - Parexel International Corporation, Cambridge, Massachusetts, A Double-Blind, Placebo-Controlled Study with Open-Label Follow-Up to Determine the Safety and Efficacy of r-HuEPO in AIDS Patients with Anemia, Department of Internal Medicine (J. J. Rinehart and P. L. Triozzi), 1 January 1988 through 31 December 1988. (Project 766562 - New)

\$22,570.00 - AT&T Bell Laboratories, Columbus, Ohio, Improving the Written Communication Skills of Nonnative Speakers of English in the Work Setting Through Individualized Tutorial, Department of English/Second Language (R. N. Kantor), 4 January 1988 through 30 June 1988. (Project 766524 - Continuation)

\$19,997.00 - Universal Energy Systems, Inc., Dayton, Ohio, Automated Design of Large-Scaled Frame Structures with Multiple Frequency Constraints, Department of Civil Engineering (O. G. McGee), 1 January 1988 through 31 December 1988. (Project 766537 - New)

\$19,995.00 - Universal Energy Systems, Inc., Dayton, Ohio, Assessing the Attributes of Expert Judgment: Measuring Bias in Subjective Uncertainty Estimates, Department of Psychology (T. E. Nygren), 15 December 1987 through 15 December 1988. (Project 766553 - New)

\$10,000.00 - Gerber Products Company, Fremont, Michigan, The Antimicrobial Action of Banana Puree, Department of Food Science and Nutrition - OARDC and Department of Food Science and Nutrition (E. R. Richter), 1 October 1987 through 30 September 1988. (Project 766528 - New)

\$6,135.00 - Boeing Computer Services, Seattle, Washington, RAMCAD Software Development, Department of Computer and Information Science (B. Chandrasekaran), 1 January 1988 through 31 March 1988. (Project 766470 - Continuation)

\$2,896.40 - Sandoz, Inc., East Hanover, New Jersey, The Efficacy of a Potent Somatostatin Analog (SMS 201-995) in the Management of Type I (Insulin-Dependent) Diabetic Patients, Department of Internal Medicine (K. Osei), 1 June 1986 through 30 June 1988. (Project 765742 - Continuation)

\$2,500.00 - Agway, Inc., Syracuse, New York, Feeding Roasted Soybeans and Calcium Soaps to Dairy Cattle During Early Lactation With or Without Supplemental Niacin, Department of Dairy Science - OARDC and Department of Dairy Science (M. L. Eastridge), 1 November 1987 through 31 October 1988. (Project 766531 - New)

March 3 and 4, 1988 meeting, Board of Trustees

REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)

THE OHIO STATE UNIVERSITY RESEARCH FOUNDATION (contd)

Industrial Research Contracts/Grants (contd)

Equipment - Xerox Corporation, Palo Alto, California, Equipment Request to Xerox Corporation, Department of Computer and Information Science (B. Chandrasekaran and S. A. Mamrak), 1 September 1987 through 31 May 1988. (Project 764969 - Continuation) (Approximate Dollar Value - \$20,000)

TOTAL - INDUSTRIAL AWARDS **\$ 843,669.05**

Other Non-Federal Research Contracts/Grants

\$744,720.00 - John D. and Catherine T. MacArthur Foundation, Chicago, Illinois, The Early Literacy Research Project, Department of Educational Theory and Practice (G. S. Pinnell), 1 January 1988 through 31 December 1990. (Project 766533 - New)

\$200,000.00 - Ohio University, Athens, Ohio, Molecular Farming: Recombinant Gene Expression in Bovine Mammary Gland and Hen Oviduct, Department of Dairy Science - OARDC (F. L. Schanbacher and C. P. Hodgson), 1 July 1987 through 30 June 1988. (Project 766005 - Continuation)

\$67,818.00 - University Affiliated Cincinnati Center for Developmental Disorders, Cincinnati, Ohio, Prevention Continuing Education in Rural Areas, Nisonger Center (S. R. Schroeder and J. Rojahn), 1 January 1988 through 31 December 1988. (Project 764528 - Continuation)

\$50,000.00 - Muscular Dystrophy Association, New York, New York, Steroid Therapy of Duchenne Dystrophy: Molecular Mechanisms, Department of Neurology (K. W. Rammohan), 1 January 1988 through 31 December 1988. (Project 766573 - New)

\$45,761.00 - Costa Rica Government, San Jose, Costa Rica, Agricultural Credit Sources in Costa Rica, Department of Agricultural Economics and Rural Sociology (C. Gonzalez-Vega), 10 January 1988 through 30 June 1988. (Project 766523 - New)

\$42,911.00 - Temple University, Philadelphia, Pennsylvania, Preventing Adolescent Drug Abuse Through the Improvement of Parenting Skills, Department of Psychology (R. Montemayor), 30 September 1987 through 31 August 1988. (Project 766569 - New)

\$33,613.00 - University of California, Santa Barbara, California, Effects of Stereotypes Based on Illusory Correlations, Department of Psychology (S. J. Sherman), 1 August 1987 through 30 June 1988. (Project 766451 - New)

\$31,480.00 - Dairy Research Foundation, Logan, Utah, Rapid Evaluation of the Microbiological Quality of Raw and Processed Milk and Milk Products by the Limulus Amebocyte Lysate Procedure, Department of Food Science and Nutrition - OARDC and Department of Food Science and Nutrition (E. M. Mikolajcik and E. R. Richter), 1 September 1987 through 31 August 1989. (Project 766514 - New)

March 3 and 4, 1988 meeting, Board of Trustees

REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)

THE OHIO STATE UNIVERSITY RESEARCH FOUNDATION (contd)

Other Non-Federal Research Contracts/Grants (contd)

\$29,500.00 - University of California, Livermore, California, Research in Astrophysics, Department of Physics and Department of Astronomy (R. N. Boyd), 1 April 1987 through 31 March 1988. (Project 766567 - New)

\$25,000.00 - California Institute of Technology, Pasadena, California, Altimetry Research in Ocean Circulation, Department of Geodetic Science and Surveying (R. H. Rapp), 1 January 1988 through 31 December 1988. (Project 766536 - New)

\$24,901.00 - Washtenaw Intermediate School District, Ann Arbor, Michigan, A Plan to Provide Technical Assistance to the Washtenaw Intermediate School District for Implementation of an Exemplary Public School/Community College Vocational-Technical Education Program, The National Center for Research in Vocational Education (R. D. Ryan), 1 December 1987 through 30 June 1988. (Project 766552 - New)

\$21,507.00 - Muscular Dystrophy Association, New York, New York, Calcineurin -- Membrane Interactions, Department of Chemistry (M. M. King), 1 January 1988 through 31 December 1988. (Project 765869 - Continuation)

\$21,455.00 - Indonesia Government, Jakarta, Indonesia, Sandwich Program for the Second Indonesia-IBRD Teacher Training Program, College of Education - Administration (J. J. Buffer), 15 December 1987 through 30 June 1988. (Project 766525 - Continuation)

\$19,500.00 - Upper Arlington City Schools, Upper Arlington, Ohio, Upper Arlington-Ohio State Middle School Project, School of Health, Physical Education and Recreation (M. O'Sullivan), 27 August 1987 through 9 June 1988. (Project 766555 - Continuation)

\$17,000.00 - March of Dimes Birth Defects Foundation, White Plains, New York, A Mammalian Estrogenicity Testing System for Polyhalogenated Hydrocarbons: Genetic Toxicological Testing for Potentially Estrogenic Substances, Department of Dairy Science - OARDC (C. P. Hodgson and L. B. Willett), 1 December 1987 through 30 November 1988. (Project 765117 - Continuation)

\$5,262.00 - Junior League of Columbus, Columbus, Ohio, Prepared Childbirth for Mentally Retarded Women, Nisonger Center (E. King), 1 August 1987 through 1 March 1988. (Project 766557 - New)

\$3,353.00 - Capital University, Columbus, Ohio, Student Personnel in Higher Education, Department of Educational Policy and Leadership (R. F. Rodgers), 1 January 1988 through 31 May 1988. (Project 766539 - Continuation)

\$1,000.00 - Anderson Foundation (Ohio), Maumee, Ohio, Programming for Computer Access and Expansion of a Videodisc, Woody Landscape Plants of the Temperate U.S., to Aid Marketing Ohio's Woody Plants, Department of

March 3 and 4, 1988 meeting, Board of Trustees

REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)

THE OHIO STATE UNIVERSITY RESEARCH FOUNDATION (contd)

Other Non-Federal Research Contracts/Grants (contd)

Horticulture - OARDC and Department of Horticulture (T. D. Sydnor), 1 January 1988 through 31 December 1988. (Project 766520 - New)

\$500.00 - The Wexner Foundation, Columbus, Ohio, A Multi-Media Renaissance Theatre and T. V. Production of A Comedy of Retrothal, Department of Theatre (A. S. Golding), 1 January 1988 through 30 June 1988. (Project 766575 - New)

Personnel Services - Battelle Memorial Institute, Columbus, Ohio, Statistical Analysis Support for the Assessment of Toxic Substances, Department of Statistics (P. K. Goel, J. C. Hsu and J. Verducci), 1 October 1987 through 30 September 1991. (Project 766543 - New) (Approximate Dollar Value - \$495,663)

TOTAL - OTHER NON-FEDERAL AWARDS **\$1,385,281.00**

ENGINEERING EXPERIMENT STATION

State Sponsored Research and Development

\$184,718.00 - The Ohio Department of Transportation, Columbus, OH, "Continued Operation of a Transfer Center for Rural Transportation Agencies in Ohio," Department of Civil Engineering, 1 January 1988 through 31 December 1988. (529749)

Industrial and Other Sponsored Research and Development

\$181,700.00 - Additional budget from Applied Information Technology Research Center, Columbus, OH, "An Environment for Supporting Translations Among Different Representations of Similar Data Objects," Department of Computer and Information Science, 1 June 1986 through 30 June 1988. (529712, Ext. 3)

\$100,000.00 - IBM, Milford, CT, "Reimplementation of Knowledge Systems Tools for IBM RT," Department of Computer and Information Science, 1 January 1988 through 31 December 1988. (529747)

\$53,260.00 - Teledyne Industries, San Diego, CA, "Theoretical Analysis for Predicting the Radiation Properties of a Crossed-Slot Antenna," Department of Electrical Engineering, 1 January 1988 through 31 December 1988. (529748)

\$49,958.00 - NCR Corporation, Dayton, OH, "Data Analysis of Circuit Performance for NCR Cold CMOS Circuits," Department of Electrical Engineering, 1 January 1988 through 31 December 1988. (529744)

\$43,422.00 - from 29 sponsors of 32 development projects through four research areas/departments of the College of Engineering.

\$40,000.00 - Edison Materials Technology Center, Kettering, OH, "Development of Pure Ceramic Semiconducting Components," Department of Ceramic Engineering, 1 January 1988 through 31 December 1988. (312443)

March 3 and 4, 1988 meeting, Board of Trustees

REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)

ENGINEERING EXPERIMENT STATION (contd)

Industrial and Other Sponsored Research and Development (contd)

\$40,000.00 - Edison Materials Technology Center, Kettering, OH, "Development of Metal Matrix Composites," Department of Metallurgical Engineering, 1 January 1988 through 31 December 1988. (312442)

\$29,765.00 - Gates Learjet Corp., Wichita, KS, "Two Dimensional Airfoil Test," Department of Aeronautical and Astronautical Engineering, 4 December 1987 through 30 June 1988. (312440)

\$21,935.00 - EPRI, Palo Alto, CA, "Characterization of Ceramic Materials for Electric Power Plant Operations," Department of Ceramic Engineering, 1 November 1983 through 31 December 1987. (312792, Ext. 4)

\$20,000.00 - Westinghouse, Glen Burnie, MD, for funding of membership to the Compact Range Consortium, Department of Electrical Engineering, 1 July 1987 through 30 June 1988. (312884)

\$20,000.00 - Edison Materials Technology Center, Kettering, OH, "Material and Process Selection, Substitution and Optimization," Department of Metallurgical Engineering, 1 August 1987 through 31 July 1988. (312445)

\$16,000.00 - Chemineer, Inc., Dayton, OH, "Heat Transfer in Mixing Systems," Department of Chemical Engineering, 1 January 1988 through 31 December 1988. (529745)

\$13,442.00 - American Society of Mechanical Engineers, New York, NY, "Editing Services of Journal of Mechanisms, Transmissions and Automation in Design," Department of Mechanical Engineering, 1 December 1987 through 30 September 1988. (312441)

\$10,296.00 - Amideast, Washington, DC, "Training Program in Regional and City Planning," Department of City and Regional Planning, 1 January 1988 through 31 March 1988. (312444)

\$10,000.00 - Battelle Columbus Division, Columbus, OH, "Heat Exchanger Aspects of a Gas Fired Cooling Only Heat Pump," Department of Mechanical Engineering, 1 September 1987 through 30 June 1989. (312439)

\$8,250.00 - Additional budget from Battelle Columbus Division, Columbus, OH, "FP&L St. Lucie Neutron Dosimetry," Department of Mechanical Engineering, 20 July 1987 through 30 September 1988. (312431, Ext. 1)

\$5,000.00 - Welding Research Council, New York, NY, "Weldability of Duplex Stainless Steels," Department of Welding Engineering, 1 January 1988 through 30 June 1988. (529750)

\$2,402.00 - Universal Energy Systems, Dayton, OH, "Bringing up a Graphic Iconic Display," Department of Computer and Information Science, 1 January 1988 through 31 March 1988. (529746)

March 3 and 4, 1988 meeting, Board of Trustees

REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)

ENGINEERING EXPERIMENT STATION (contd)

Industrial and Other Sponsored Research and Development (contd)

\$ (74,664.00) - Decreased funding from Battelle Columbus Labs, Columbus, OH, "Evaluate and Test Heat Pump Component Performance," Department of Mechanical Engineering, 1 August 1985 through 21 February 1988. (312858, Ext. 3)

TOTAL - INDUSTRIAL AND OTHER SPONSORED RESEARCH **\$ 590,766.00**

THE OHIO STATE UNIVERSITY DEVELOPMENT FUND

Establishment of Named Funds

Edward Montgomery, Jr., Scholarship Fund

The Edward Montgomery, Jr., Scholarship Fund was established March 4, 1988, by the Board of Trustees of The Ohio State University with gifts to The Ohio State University Development Fund from the estate of Edward E. Montgomery, Jr. (B.Mus. '69), Worthington, Ohio.

All gifts are to be invested in the University's Permanent Endowment Fund, under the rules and regulations adopted by the Board of Trustees of The Ohio State University, with the right to invest and reinvest as occasion dictates.

Annual income shall be used to provide scholarships to entice and maintain talented music students to The Ohio State University Marching Band. If there is no marching band or OSU band into which it is merged, then the income shall be used for scholarship assistance for students of the College of The Arts, or its successor. Scholarship recipients will be selected by representatives of the School of Music in consultation with the University Committee on Student Financial Aid.

It is the desire of the donor that this fund should benefit the University in perpetuity. If the need for this fund should cease to exist or so diminish as to provide unused income, then another use shall be designated by the Board of Trustees in consultation with the appropriate college dean, department chairperson, or program administrative officer in order to carry out the desire of the donor.

The Scott A. Webb Loan Fund

The Scott A. Webb Loan Fund was established March 4, 1988, by the Board of Trustees of The Ohio State University with gifts to The Ohio State University Development Fund from the estate of Scott A. Webb.

All gifts are to be invested in the University's Permanent Endowment Fund, under the rules and regulations adopted by the Board of Trustees of The Ohio State University, with the right to invest and reinvest as occasion dictates.

March 3 and 4, 1988 meeting, Board of Trustees

REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)

THE OHIO STATE UNIVERSITY DEVELOPMENT FUND (contd)

Establishment of Named Funds (contd)

The Scott A. Webb Loan Fund (contd)

The annual income shall be used to make loans to worthy students at The Ohio State University for the purpose of assisting them to obtain an education. The terms of the loans are under the jurisdiction of the University Committee on Student Financial Aid. Loan terms and application and repayment procedures will be consistent with other University loan procedures. Selection of the loan recipients will be made by the University Committee on Student Financial Aid.

It is the desire of the donor that this fund should benefit the University in perpetuity. If the need for this fund should cease to exist or so diminish as to provide unused income, then another use shall be designated by the Board of Trustees in consultation with the University Committee on Student Financial Aid, in order to carry out the desire of the donor.

The Ethel Manley Long Fund

The Ethel Manley Long Fund was established March 4, 1988, by the Board of Trustees of The Ohio State University with gifts to The Ohio State University Development Fund from Frank Clarke Long, Jr., M.D. (B.A. '32, M.D. '36), Columbus, Ohio.

All gifts are to be invested in the University's Permanent Endowment Fund, under the rules and regulations adopted by the Board of Trustees of The Ohio State University, with the right to invest and reinvest as occasion dictates.

The annual income shall be used for programs and special events of The Wexner Center for the Visual Arts. All expenditures shall be approved by the Executive Director of the Wexner Center in consultation with the Dean of the College of The Arts.

It is the desire of the donor that this fund should benefit the University in perpetuity. If the need for this fund should cease to exist or so diminish as to provide unused income, then another use shall be designated by the Board of Trustees in consultation with the appropriate college dean, department chairperson, or program administrative officer in order to carry out the desire of the donor.

The Frank Clarke Long, Sr., Memorial Cancer Research Fund

The Frank Clarke Long, Sr., Memorial Cancer Research Fund was established March 4, 1988, by the Board of Trustees of The Ohio State University with gifts to The Ohio State University Development Fund from Frank Clarke Long, Jr., M.D. (B.A. '32, M.D. '36), Columbus, Ohio.

March 3 and 4, 1988 meeting, Board of Trustees

REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)

THE OHIO STATE UNIVERSITY DEVELOPMENT FUND (contd)

Establishment of Named Funds (contd)

The Frank Clarke Long, Sr., Memorial Cancer Research Fund (contd)

All gifts are to be invested in the University's Permanent Endowment Fund, under the rules and regulations adopted by the Board of Trustees of The Ohio State University, with the right to invest and reinvest as occasion dictates.

Annual income shall be used for cancer research in the Arthur G. James Cancer Hospital and Research Institute. All expenditures shall be approved by the Medical Director of the Cancer Hospital and Research Institute in consultation with the Dean of the College of Medicine.

It is the desire of the donor that this fund should benefit the University in perpetuity. If the need for this fund should cease to exist or so diminish as to provide unused income, then another use shall be designated by the Board of Trustees in consultation with the appropriate college dean, department chairperson, or program administrative officer in order to carry out the desire of the donor.

The Dean W. and Ruth Jeffers Cancer Research Endowment Fund

The Dean W. and Ruth Jeffers Cancer Research Endowment Fund was established March 4, 1988, by the Board of Trustees of The Ohio State University with gifts to The Ohio State University Development Fund from Dean W. Jeffers, Columbus, Ohio.

All gifts are to be invested in the University's Permanent Endowment Fund, under the rules and regulations adopted by the Board of Trustees of The Ohio State University, with the right to invest and reinvest as occasion dictates.

The annual income shall be used to support cancer research in the Arthur G. James Cancer Hospital and Research Institute as approved by the Medical Director of the Cancer Research Institute and the Dean of the College of Medicine. If it is determined that funding for cancer research is so ample, then the income from this fund may be used for those purposes deemed appropriate by the Medical Director of the Cancer Research Institute.

It is the desire of the donor that this fund should benefit the University in perpetuity. If the need for this fund should cease to exist or so diminish as to provide unused income, then another use shall be designated by the Board of Trustees in consultation with the appropriate college dean, department chairperson, or program administrative officer in order to carry out the desire of the donor.

March 3 and 4, 1988 meeting, Board of Trustees

REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)

THE OHIO STATE UNIVERSITY DEVELOPMENT FUND (contd)

Establishment of Named Funds (contd)

Frederick P. Zuspan Lectureship

The Frederick P. Zuspan Lectureship was established March 4, 1988, by the Board of Trustees of The Ohio State University with gifts to The Ohio State University Development Fund from members of the Department of Obstetrics & Gynecology.

All gifts are to be invested in the University's Permanent Endowment Fund, under the rules and regulations adopted by the Board of Trustees of The Ohio State University, with the right to invest and reinvest as occasion dictates.

The annual income shall be used to sponsor an annual lecture series in obstetrics and gynecology. Income will be used to defray expenses in sponsoring lectures and related activities. Expenditures from the fund shall be authorized by the Chairperson of the Department of Obstetrics & Gynecology.

It is the desire of the donors that this fund should benefit the University in perpetuity. If the need for this fund should cease to exist or so diminish as to provide unused income, then another use shall be designated by the Board of Trustees in consultation with the appropriate college dean, department chairperson, or program administrative officer in order to carry out the desire of the donors.

INONA (Fund) Scholarships

The INONA (Fund) Scholarships was established March 4, 1988, by the Board of Trustees of The Ohio State University with gifts to The Ohio State University Development Fund from the estate of Edwin G. Lawton of Columbus, Ohio.

All gifts are to be invested in the University's Permanent Endowment Fund, under the rules and regulations adopted by the Board of Trustees of The Ohio State University, with the right to invest and reinvest as occasion dictates.

The annual income shall be used for scholarships for Native American students. The purpose of the scholarships is to educate and prepare individual students for leadership roles within the Independent Nations of Native Americans (INONA). Recipients shall demonstrate an understanding and appreciation of the culture, heritage, religion and traditions of the Native American people. Scholarship recipients will be selected upon the recommendation of the University Committee on Student Financial Aid.

It is the desire of the donor that this fund should benefit the University in perpetuity. If the need for this fund should cease to exist or so diminish as to provide unused income, then another use shall

March 3 and 4, 1988 meeting, Board of Trustees

REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)

THE OHIO STATE UNIVERSITY DEVELOPMENT FUND (contd)

Establishment of Named Funds (contd)

INONA (Fund) Scholarships (contd)

be designated by the Board of Trustees in consultation with the University Committee on Student Financial Aid, in order to carry out the desire of the donor.

The Tom H. and Ellen M. Robinson Crop Improvement Fund

The Tom H. and Ellen M. Robinson Crop Improvement Fund was established March 4, 1988, by the Board of Trustees of The Ohio State University with gifts to The Ohio State University Development Fund from Tom H. Robinson (B.S.Agr. '73) and Ellen M. Robinson (B.S.Ed. '74) of Powell, Ohio.

All gifts are to be invested in the University's Permanent Endowment Fund, under the rules and regulations adopted by the Board of Trustees of The Ohio State University, with the right to invest and reinvest as occasion dictates.

The annual income from this fund shall be used to fund basic agronomic research in developing new or improved agronomic crops. Expenditures for the fund shall be approved by the department chair.

It is the desire of the donors that this fund should benefit the University in perpetuity. If the need for this fund should cease to exist or so diminish as to provide unused income, then another use shall be designated by the Board of Trustees in consultation with the appropriate college dean, department chairperson, or program administrative officer in order to carry out the desire of the donors.

Change of Name and Description of Named Fund

The Ward-Bloomfield Scholarship Fund

The Ward, Kaps and Perry Scholarship Fund was established April 1, 1977, by the Board of Trustees of The Ohio State University with gifts to The Ohio State University Development Fund from Paul F. Ward (J.D. '39), David S. Bloomfield (B.S. '66, J.D. '69), and Sally W. Bloomfield (J.D. '69), all of Columbus, Ohio. The name and description were changed March 4, 1988.

All gifts are to be invested in the University's Permanent Endowment Fund, under the rules and regulations adopted by the Board of Trustees of The Ohio State University, with the right to invest and reinvest as occasion dictates.

The annual income shall be used to provide financial assistance to one or more students with demonstrated financial need who are enrolled in the College of Law. The selection of the recipient(s) shall be made by the University Committee on Student Financial Aid upon the recommendation of

March 3 and 4, 1988 meeting, Board of Trustees

REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)

THE OHIO STATE UNIVERSITY DEVELOPMENT FUND (contd)

Change of Name and Description of Named Fund (contd)

The Ward-Bloomfield Scholarship Fund (contd)

the Dean of the College of Law. Students who have demonstrated academic ability and have a definite need for financial assistance will be considered for this scholarship.

Should the need for this fund cease to exist or so diminish as to provide unused income, then the income may be used for any purpose whatsoever as determined by the Board of Trustees, with preference being given to the recommendations from the appropriate administrative official of the University who is then directly responsible for law education.

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**REQUEST FOR CONSTRUCTION BIDS AND
ESTIMATE OF COST - FUNDING**

Resolution No. 88-95

Synopsis: Authorization to request construction bids is proposed.

WHEREAS the plans and specifications for the following projects have been completed and, at the request of the Vice President for Business and Administration, the President recommended that the Board of Trustees authorize the request for construction bids:

RHODES HALL ADMINISTRATIVE OFFICES

Project: Expansion of the existing first floor administrative offices to provide a total of ten offices and two conference rooms instead of the present five offices and one conference room; and renovation of the first floor entrance lobby and new reception desk. A new canopied entrance "air lock" vestibule is included to be bid as an alternate. This will provide weather protection for patients and visitors and will eliminate cold winds from penetrating the reception area.

Funding: University Hospitals Funds

Estimated Construction Cost: \$599,500.00

Estimated Project Cost: \$668,260.00

March 3 and 4, 1988 meeting, Board of Trustees

**REQUEST FOR CONSTRUCTION BIDS AND
ESTIMATE OF COST - FUNDING (contd)**

BIOTECHNOLOGY CENTER RIGHTMIRE HALL - GROWTH CHAMBERS

Project: Renovation of approximately 3900 square feet in the basement of Rightmire Hall for the installation of fourteen growth chambers, including a new emergency generator and new electrical distribution center.

Funding: University Funds

Estimated Construction Cost: \$425,000.00

Estimated Project Cost: \$540,450.00

NOW THEREFORE

BE IT RESOLVED, That the President and/or Vice President for Business and Administration be authorized, in accordance with established University procedures, to request construction bids on these projects, and if satisfactory bids are received, to award the necessary contracts, with all actions to be reported to this Board at the appropriate time.

Upon motion of Ms. Casto, seconded by Mr. Barone, the Board of Trustees adopted the foregoing resolution by unanimous roll call vote.

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**REPORT OF AWARD OF CONTRACTS AND
ESTABLISHMENT OF CONTINGENCY FUNDS**

Resolution No. 88-96

Synopsis: Contracts have been awarded for the projects listed below to the lowest and best bidders in accordance with University procedures.

WHEREAS resolutions adopted by the Board of Trustees at previous meetings authorized the President and/or Vice President for Business and Administration to sign the plans and specifications and, in accordance with established University procedures, to request bids and, if satisfactory bids were received, to recommend to the Department of Administrative Services, Division of Public Works, the award of contracts for the Clinical Medical Services and Bee Laboratory Replacement projects as follows:

CLINICAL MEDICAL SERVICES

Description: This project provides for the construction of a four floor and basement addition providing space for clinical medical services which will serve all of the existing and proposed medical buildings contiguous to the east end of the existing University Hospitals, and the remodeling of existing spaces. This will provide an important link for cancer patients and operations between the main hospital and the Cancer Research Institute. The first floor will contain admitting offices, radiology and EKG testing areas; the second floor will house nuclear medicine, nuclear pharmacy and nuclear pharmaceutical research; the third floor will

March 3 and 4, 1988 meeting, Board of Trustees

**REPORT OF AWARD OF CONTRACTS AND
ESTABLISHMENT OF CONTINGENCY FUNDS (contd)**

CLINICAL MEDICAL SERVICES (contd)

contain the blood bank, phlebotomy/pheresis area and offices for bone marrow department; the fourth floor will be a pre-operative holding area, surgical/pathology area and surgical administrative offices. Construction is scheduled to begin February 1988 and is to be completed February 1990.

General Contract

Date Received:	January 21, 1988
No. of Bids:	5
Low Bid:	\$3,445,000.00**
High Bid:	\$4,157,417.00*
Estimate of Cost:	\$3,288,727.00*
Awarded to:	Sherman R. Smoot Co., Columbus, OH

Plumbing Contract

Date Received:	January 21, 1988
No. of Bids:	2
Low Bid:	\$ 515,236.00**
High Bid:	\$ 705,000.00*
Estimate of Cost:	\$ 510,216.00*
Awarded to:	J. A. Croson, Columbus, OH

HVAC Contract

Date Received:	January 21, 1988
No. of Bids:	4
Low Bid:	\$1,453,300.00**
High Bid:	\$1,518,250.00*
Estimate of Cost:	\$1,176,512.00*
Awarded to:	J. A. Guy, Inc., Dublin, OH

*Recommended alternates reflected in these figures.

+General, Plumbing and HVAC Contracts are in excess of filed estimate of cost; however, the total price of all contracts is within 10% of the total estimate of cost and is recommended for award as provided by Section 153.12 of the Revised Code.

March 3 and 4, 1988 meeting, Board of Trustees

**REPORT OF AWARD OF CONTRACTS AND
ESTABLISHMENT OF CONTINGENCY FUNDS (contd)**

CLINICAL MEDICAL SERVICES (contd)

Electric Contract

Date Received:	January 21, 1988
No. of Bids:	3
Low Bid:	\$ 829,500.00*
High Bid:	\$ 933,400.00*
Estimate of Cost:	\$ 987,895.00*
Awarded to:	Meisner Electric Inc., Columbus, OH
Total All Contracts:	\$6,243,036.00*
Total Contingency Allowance:	\$ 374,607.21 (which is 6% of construction costs)
Total Project Cost:	\$8,400,720.00*
Funding:	University Hospitals Funds

*Recommended alternates reflected in these figures.

NOTE: Movable equipment, asbestos removal, emergency power conduits and administrative costs are included in the total project cost.

BEE LABORATORY REPLACEMENT

Description: This project provides for the construction of a new building just north of the Dairy Science Complex off Lane Avenue, which will provide research, office and storage space to replace the present wood frame structure built in 1912. Construction is scheduled to begin April 1988 and be completed within one year.

General Contract

Date Received:	January 27, 1988
No. of Bids:	3
Low Bid:	\$ 220,470.00*+

*Recommended alternates reflected in these figures.

*General and Electric Contracts are in excess of filed estimate of cost; however, the total price of all contracts is within 10% of the total estimate of cost and is recommended for award as provided by Section 153.12 of the Revised Code.

March 3 and 4, 1988 meeting, Board of Trustees

**REPORT OF AWARD OF CONTRACTS AND
ESTABLISHMENT OF CONTINGENCY FUNDS (contd)**

BEE LABORATORY REPLACEMENT (contd)

General Contract (contd)

High Bid:	\$ 232,350.00*
Estimate of Cost:	\$ 206,300.00*
Awarded to:	Yadkin Inc., Columbus, OH

Plumbing Contract

Date Received:	January 27, 1988
No. of Bids:	3
Low Bid:	\$ 47,839.00*
High Bid:	\$ 63,250.00*
Estimate of Cost:	\$ 53,500.00*
Awarded to:	J. A. Croson, Columbus, OH

HVAC Contract

Date Received:	January 27, 1988
No. of Bids:	2
Low Bid:	\$ 35,567.00*
High Bid:	\$ 35,600.00*
Estimate of Cost:	\$ 36,315.00*
Awarded to:	C. R. Legner Co., Columbus, OH

Electric Contract

Date Received:	January 27, 1988
No. of Bids:	6
Low Bid:	\$ 71,210.00**

*Recommended alternates reflected in these figures.

+General and Electric Contracts are in excess of filed estimate of cost; however, the total price of all contracts is within 10% of the total estimate of cost and is recommended for award as provided by Section 153.12 of the Revised Code.

March 3 and 4, 1988 meeting, Board of Trustees

**REPORT OF AWARD OF CONTRACTS AND
ESTABLISHMENT OF CONTINGENCY FUNDS (contd)**

BEE LABORATORY REPLACEMENT (contd)

Electric Contract (contd)

High Bid:	\$ 85,575.00*
Estimate of Cost:	\$ 66,300.00*
Awarded to:	Buckeye Electric Co., Dayton, OH
Total All Contracts:	\$ 375,086.00*
Total Contingency Allowance:	\$ 22,254.00 (which is 6% of construction costs)
Total Project Cost:	\$ 448,134.80*
Funding:	H.B. 552, S.B. 381, S.B. 348 and University Funds

*Recommended alternates reflected in these figures.

NOW THEREFORE

BE IT RESOLVED, That pursuant to the actions previously authorized by the Board, the award of contracts and the establishment of project funds and contingency funds for the projects listed above are hereby approved.

Upon motion of Mrs. Bowser, seconded by Ms. Casto, the Board of Trustees adopted the foregoing resolution by unanimous roll call vote.

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**EASEMENT
OHIO BELL TELEPHONE COMPANY**

Resolution No. 88-97

Synopsis: Authorization to grant an easement to the Ohio Bell Telephone Company for construction of an underground communication system is requested.

WHEREAS the Ohio Bell Telephone Company has requested a 15-year easement consisting of a strip of land 10 feet in width and approximately 3900 feet in length for an easement located at Lane and Kenny Roads; and

WHEREAS the underground communication system will serve University property and private property; and

WHEREAS the appropriate University offices have recommended this easement be granted:

NOW THEREFORE

March 3 and 4, 1988 meeting, Board of Trustees

**EASEMENT
OHIO BELL TELEPHONE COMPANY (contd)**

BE IT RESOLVED, That the Vice President for Business and Administration be authorized to request the Deputy Director of Public Works of the Department of Administrative Services, pursuant to his statutory duties, to act for and on behalf of the University in developing the necessary legal instruments to provide for this easement.

Upon motion of Mr. Barone, seconded by Ms. Casto, the Board of Trustees adopted the foregoing resolution by unanimous roll call vote.

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**EASEMENT
CITY OF JACKSON, OHIO**

Resolution No. 88-98

Synopsis: Authorization to grant an easement to the City of Jackson, Ohio, for installation of a water relief main is requested.

WHEREAS the City of Jackson has requested a 15-year easement consisting of strips of land 15 feet in width and 1,190 feet in length and 20 feet in width and 1,630 feet in length for an easement located on a farm in Jackson and operated by the Ohio Agricultural Research and Development Center; and

WHEREAS the City of Jackson has been granted a right of entry to perform the work; and

WHEREAS the water relief main will serve University property and private property; and

WHEREAS the appropriate University offices have recommended this easement be granted:

NOW THEREFORE

BE IT RESOLVED, That the President and/or Vice President for Business and Administration be authorized to request the Deputy Director of Public Works of the Department of Administrative Services, pursuant to his statutory duties, to act for and on behalf of the University in developing the necessary legal instruments to provide for this easement.

Upon motion of Mr. Imke, seconded by Ms. Casto, the Board of Trustees adopted the foregoing resolution by unanimous roll call vote.

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**EASEMENT
THE EAST OHIO GAS COMPANY**

Resolution No. 88-99

Synopsis: Renewal of a gas pipeline easement to The East Ohio Gas Company is proposed.

March 3 and 4, 1988 meeting, Board of Trustees

**EASEMENT
THE EAST OHIO GAS COMPANY (contd)**

WHEREAS in 1972 the University granted to The East Ohio Gas Company a 15-year easement consisting of a strip of land 30 feet wide and approximately 975 feet in length for a gas pipeline right of way at the Agricultural Technical Institute; and

WHEREAS this easement has expired and The East Ohio Gas Company has requested a renewal of the easement for a period of 15 years; and

WHEREAS the gas pipeline serves University property; and

WHEREAS the appropriate University offices have recommended the renewal of this easement:

NOW THEREFORE

BE IT RESOLVED, That the President and/or Vice President for Business and Administration be authorized to request the Deputy Director of Public Works of the Department of Administrative Services, pursuant to his statutory duties, to act for and on behalf of the University in developing the necessary legal instruments to provide for this easement.

Upon motion of Ms. Casto, seconded by Mr. Teaford, the Board of Trustees adopted the foregoing resolution by unanimous roll call vote.

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**AMENDMENTS OF RESTATED AGREEMENT, FIRST SUPPLEMENTAL INDENTURE
AND REMARKETING AGREEMENT -- \$42,500,000 THE OHIO STATE UNIVERSITY
VARIABLE RATE DEMAND GENERAL RECEIPTS BONDS, SERIES 1985**

Resolution No. 88-100

Synopsis: Providing for certain amendments to the First Supplemental Trust Indenture (the "First Supplemental Indenture"), dated as of December 30, 1985, between The Ohio State University (the "University") and The Huntington National Bank, as trustee (the "Trustee"), as amended by the Amendment Agreement (the "Amendment Agreement"), dated as of December 1, 1986, between the Trustee and the University, the Restated Standby Bond Purchase and Term Loan Agreement (the "Restated Standby Agreement"), dated as of December 1, 1986, between the University and The Industrial Bank of Japan, Limited, New York Branch (the "Bank"), and the Remarketing Agreement (the "Remarketing Agreement"), dated as of December 1, 1985, between John Nuveen & Co. Incorporated, as remarketing agent, and the University, for the purpose of permitting the assignment by the Bank of its obligations under the Restated Standby Agreement to The Industrial Bank of Japan, Limited, Chicago Branch (the "Chicago Branch").

WHEREAS on December 6, 1985, the Board of Trustees (the "Board") of the University adopted a resolution (the "Series 1985 B Bond Resolution") authorizing the issuance of the \$42,500,000 The Ohio State University Variable Rate Demand General Receipts Bonds, Series 1985 B (the "Series 1985 B Bonds"); and

March 3 and 4, 1988 meeting, Board of Trustees

**AMENDMENTS OF RESTATED AGREEMENT, FIRST SUPPLEMENTAL INDENTURE
AND REMARKETING AGREEMENT — \$42,500,000 THE OHIO STATE UNIVERSITY
VARIABLE RATE DEMAND GENERAL RECEIPTS BONDS, SERIES 1985 (contd)**

WHEREAS the Series 1985 B Bonds are secured by a Trust Indenture, dated as of November 15, 1985, between the Trustee and the University (the "Original Indenture"), as supplemented by the First Supplemental Indenture; and

WHEREAS pursuant to the Series 1985 B Bond Resolution and the Original Indenture, as supplemented by the First Supplemental Indenture, the University and the Bank entered into the Standby Bond Purchase and Term Loan Agreement (the "Standby Agreement"), dated as of December 30, 1985, between the University and the Bank, for the purpose of providing liquidity support for the Series 1985 B Bonds; and

WHEREAS pursuant to the Original Indenture, as supplemented by the First Supplemental Indenture, the University and the Remarketing Agent entered into the Remarketing Agreement; and

WHEREAS on December 5, 1986, the Board of the University adopted a resolution authorizing the execution by the University of the Amendment Agreement and the Restated Standby Agreement for the purpose of amending the First Supplemental Indenture and the Standby Agreement, respectively; and

WHEREAS the Bank has requested the University to consent to (i) the assignment to the Chicago Branch of the Bank's obligations under the Restated Standby Agreement and (ii) the termination of all of the Bank's obligations thereunder; and

WHEREAS Section 12.7 of the Restated Standby Agreement permits assignment by the Bank of the Restated Standby Agreement, but provides that the Bank shall continue to be liable under the Restated Standby Agreement following any such assignment (the "Section 12.7 Assignment Restriction"); and

WHEREAS the Board has determined that it is an accommodation to the Bank consistent with the best interests of the University to waive the Section 12.7 Assignment Restriction and to authorize certain amendments to the Restated Standby Agreement, the First Supplemental Indenture, as amended by the Amendment Agreement, and to the Remarketing Agreement, for the purpose of assigning the Bank's rights and obligations under the Restated Standby Agreement to the Chicago Branch:

NOW THEREFORE

BE IT RESOLVED, BY THE BOARD OF TRUSTEES OF THE OHIO STATE UNIVERSITY, as follows:

Section 1. Definitions and Interpretations. All words and terms defined in the Original Indenture, the First Supplemental Indenture and the Series 1985 B Bond Resolution and all interpretations therein provided shall have in this Resolution the same meanings, respectively, and be subject to the same interpretations as therein provided or used, unless the context or use clearly indicates another or different meaning or intent.

March 3 and 4, 1988 meeting, Board of Trustees

**AMENDMENTS OF RESTATED AGREEMENT, FIRST SUPPLEMENTAL INDENTURE
AND REMARKETING AGREEMENT — \$42,500,000 THE OHIO STATE UNIVERSITY
VARIABLE RATE DEMAND GENERAL RECEIPTS BONDS, SERIES 1985 (contd)**

Section 2. Waiver of the Section 12.7 Assignment Restriction, Amendment of the Restated Standby Agreement, the First Supplemental Indenture, as Amended by the Amendment Agreement, and the Remarketing Agreement. The Chairman or the Treasurer are hereby authorized on behalf of the University, with advice of counsel, to consent to and take all necessary actions to waive the Section 12.7 Assignment Restriction and to amend the Restated Standby Agreement, the First Supplemental Indenture, as amended by the Amendment Agreement, and the Remarketing Agreement, for the purpose of assigning the Bank's rights and obligations under the Restated Standby Agreement to the Chicago Branch. In connection therewith, the Chairman or the Treasurer, with advice of counsel, may execute, on behalf of the University, any documents or certificates necessary to accomplish such waiver and assignment as shall not, in the Chairman or Treasurer's judgment, in any way impair the University's rights under the Restated Standby Agreement, the First Supplemental Indenture, as amended by the Amendment Agreement, or the Remarketing Agreement, or under any other agreement, document or certificate executed or delivered in connection with the issuance of the Series 1985 B Bonds.

Section 3. Text of Resolution. The text of this Resolution authorizing the execution by the Chairman or the Treasurer, on behalf of the University, of all documents and certificates necessary to accomplish the waiver and assignment and any acts related thereto, may be changed for the purpose of curing any ambiguity, inconsistency or formal defect or omission in this Resolution or in respect of this Resolution as it relates to such waiver or assignment. Such changes shall be subject to the approval of the Chairman or the Treasurer as being changes not inconsistent with the best interests of the University or contrary to the true intent or meaning hereof and shall be acceptable to Bond Counsel.

Section 4. Open Meeting Determination. It is found and determined that all formal actions of the Board concerning or relating to the adoption of this Resolution were adopted in an open meeting of the Board, and that all deliberations of the Board and of any of its committees that resulted in such formal action were in meetings open to the public, in compliance with all legal requirements including Section 121.22 of the Revised Code.

Section 5. Effective Date. This Resolution shall take effect and be enforced immediately upon its adoption.

Upon motion of Mr. Teaford, seconded by Ms. Casto, the Board of Trustees adopted the foregoing resolution by unanimous roll call vote.

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**ACCEPTANCE OF THE GIFT OF STOCK
COLUMBUS H.I., INC.
3110 OLENTANGY RIVER ROAD, COLUMBUS, OHIO**

Resolution No. 88-101

Synopsis: Authorization to accept 100% stock ownership in Columbus H.I., Inc., (The University Inn) is being requested.

March 3 and 4, 1988 meeting, Board of Trustees

**ACCEPTANCE OF THE GIFT OF STOCK
COLUMBUS H.I., INC.
3110 OLENTANGY RIVER ROAD, COLUMBUS, OHIO (contd)**

WHEREAS the owners of Columbus H.I., Inc., desire to donate 100% of the outstanding stock of the corporation to The Ohio State University; and

WHEREAS the corporation consists of the assets and liabilities associated with The University Inn, a hotel located at 3110 Olentangy River Road, Columbus, Ohio; and

WHEREAS it is intended the corporation will retain its current legal form as a for-profit corporation; and

WHEREAS the renovation and modernization will result in a modern hotel and conference facility with 244 guest rooms and suites and 16,000 square feet of meeting and banquet space; and

WHEREAS the acceptance of this gift of stock is desirable and in the best interest of The Ohio State University:

NOW THEREFORE

BE IT RESOLVED, That the stock of Columbus H.I., Inc., be accepted as a gift to The Ohio State University through the Development Fund pending all appropriate legal and financial reviews; and

BE IT FURTHER RESOLVED, That the Treasurer is authorized to retain the stock gift of Columbus H.I., Inc., for the University's Endowment Fund portfolio; and

BE IT FURTHER RESOLVED, That the President and/or Vice President for Business and Administration be authorized to execute the necessary agreements in order for the corporation to refinance and renovate the hotel, including a guarantee by The Ohio State University Endowment Fund of one million dollars of the outstanding loan balance.

Upon motion of Mrs. Bowser, seconded by Mr. Barone, the Board of Trustees adopted the foregoing resolution with five affirmative votes cast by Messrs. Redman, Barone, Kessler, and Mrs. Bowser and Ms. Casto, and a negative vote cast by Mr. Teaford, and an abstention by Mr. Immke.

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President Jennings:

Thank you, Mr. Chairman. I've got one more item. As you know, we are in the process of a major curriculum review at Ohio State University, and it is one of the most important academic issues that we are currently engaged in, and I would like Dr. Brand to briefly update you as to where we stand on that issue. Myles, if you would?

Dr. Brand:

Yes, thank you for the opportunity. I'm very pleased to be able to report progress on the curriculum review. Let me briefly remind you of the process.

March 3 and 4, 1988 meeting, Board of Trustees

Dr. Brand: (contd)

A year ago last spring we set up a university-wide committee chaired by Professor Gerald Reagan to outline the conceptual framework for curriculum review at this University.

Unlike other universities, we are undertaking a complete curriculum review. We are looking at general education university-wide. We are also looking at the majors programs in every case, over 200, I should mention, and all the support and delivery services for education. So we're doing a full review.

That committee came forward with its report. The Arts and Sciences, the five colleges of Arts and Sciences, were then charged to form a committee to provide a model, at a conceptual level sufficient to be specific about the curriculum without yet talking about implementation.

That committee has been working very hard for almost a year now and has engaged the faculty completely in the debate. They have come forward with a first draft and expect by the end of the Spring Quarter to win acceptance from the faculty of a strong general education model, the first step in the process. That model will emphasize basic skills and competencies for all our students including writing and communication skills. It will assure that every student is scientifically and technologically literate, an important feature that's not shared by other curriculum reviews across the country. It will include a strong international affairs element, a language component, a strong social science component, as well as a strong humanities and fine arts component.

The faculty have been fully engaged in this process, as well as the students. We are now beginning to look forward to the implementation of the process in the next few years. Recently we had to Campus, as part of a lecture series, Ernest Boyer, who is from the Carnegie Foundation. Mr. Boyer is extremely knowledgeable about curriculum reforms across the country and indeed wrote a book recently, called College, that was very well received. Mr. Boyer had extremely laudatory things to say about our program, both its extent and its depth. I believe we're on the right track and I also believe that this will take Ohio State one step further towards greatness.

Mr. President, I'm very pleased about this proposal.

President Jennings:

Thank you, Myles. I appreciate those brief comments. The brevity of those comments should not indicate the lack of importance. This is one of the most important things going on at the University, not only now but in an historical context. It is a debate that is raging in academic circles across the country. It is a debate that has been engaged by virtually all segments of the educational community and the public, I might add, as well.

I'm also extremely pleased to point out that whether it's Ernie Boyer or Bloom at the University of Chicago, that the most

March 3 and 4, 1988 meeting, Board of Trustees

President Jennings: (contd)

current activities they've engaged in is the curriculum review and they have discovered what Ohio State has been engaged in for the past two years and indicated that Ohio State is substantially ahead of the rest of the country.

Now, at this time of the year in a university I know you're all aware, and the faculty is all aware, that we are now engaged in the planning process for the next fiscal year beginning in July of 1988. As Myles pointed out, the next steps of this curriculum will be taking place this coming fall, first steps being the development of the courses and experimental activity. I think it is important to point out not only to this Board but to the faculty, staff, and students that this is not only an extraordinarily important item, and a timely item, but this is going to be an expensive proposition as well. It is an expense that we recognize and it is an expense that should be made.

I want to indicate that when the budget material comes to you in May and June of this year, there will be a special allocation of \$3 million to the Provost's Office to fund the costs associated with this curriculum. Those costs are going to involve not only course development, but will involve laboratory activity in the sciences and additional faculty as class sizes are smaller and more extensive. They will cut across the entire gamut of the institution. We expect the cost to be \$3 million. It may go higher than that, but at this stage the 88-89 budget will include an allocation of \$3 million to the Provost for specifically the costs associated with this curriculum. There will be additional new money, recurring money as well -- and I say recurring money, our folks know what recurring money is. That means they get it the following year, too, and the following year after that. That will be in the allocation. We can expect these costs to be well worth it, and well worth it to the future of this University, and well worth it to our most important clientele, namely the students of this Institution.

It is particularly timely that this freshman class of 1988 is the class of '92 where there will be a major celebration in Columbus, and this class will be engaged in that celebration. But they will be the first graduates of a major new curriculum that I think will lead the nation in undergraduate education.

Mr. Chairman, that completes my report.

Mr. Redman:

Okay. I would like to have committee reports, if any, from the Development Fund. Mr. Kessler?

Mr. Kessler:

No report.

March 3 and 4, 1988 meeting, Board of Trustees

Mr. Redman:

No report. The Research Board, Mr. Barone?

Mr. Barone:

We met yesterday and I will make that report at the June meeting, because I just gave a report at the last meeting.

Mr. Redman:

Very good. And the University Hospitals Board, Mrs. Bowser?

Mrs. Bowser:

We met last Thursday, February 25, and it was the first meeting we'd had using our new format of committee structure. As you know, we've gone through an evaluation and this is the first time that we have met with this new structure. It went very well for the first time, and you will probably be hearing more about it as we continue.

At our next meeting we plan to compare our Hospitals' effectiveness against other Big 10 hospitals with regard to the quality assurance and the various business measures. And I think, Mr. Kessler asked once, "You give us this information, but what is that compared to." So the Hospitals Board will be taking a look at that and hopefully we'll be sharing that with you.

Dr. Mekhjian reported that the medical staff and the administrative leadership have been meeting regularly since January to discuss items of mutual concern related to budget reductions, bed allocation and census, and utilization of the nursing staff. We're also taking a look at the emergency department and the efficiency with which we're working there.

Mr. Covert reported to the Hospitals Board that the obstetrics and newborn patient care area has been licensed again by the Ohio Department of Health. And that the Joint Commission on Accreditation of Hospitals has given the hospital another full three-year accreditation. We really appreciate all the work that went into that, both from the medical staff and the administrative staff.

We continued on the Hospitals Board talking with Mr. Covert and his staff about the pressures, the financial pressures that are going to come to bear on the Hospitals this next year. It's sort of coming from different directions both with Medicare and Medicaid.

There was some announcement picked up by the press that lay-offs would be the way we would be handling this. We were assured that it wouldn't be across-the-board kinds of lay-offs, that this would be taken care of through normal attrition and retirement, and so on and so forth. But we're looking at everything in order to keep the costs in-line with what we know our income to be.

March 3 and 4, 1988 meeting, Board of Trustees

Mrs. Bowser: (contd)

And lastly, in our Board's search for continuing education programs, next month we're hoping to have a special meeting with Dr. William Cleverley, who is really an outstanding expert across the nation in hospital administration. He's on our staff and we've never utilized his services. So we will be bringing him to the next Board meeting and discussing with him some of his ideas as to how we can financially --

Mr. Redman:

You mean the Hospitals Board?

Mrs. Bowser:

The Hospitals Board. That happens at Ohio State occasionally when we have a real expert right in our own backyard and we use other experts. We forget that we have someone on staff that's traveling the country doing the same thing. So we're looking forward to having Dr. Cleverley with us and utilizing his services. That's my report.

Mr. Teaforde:

Mr. Chairman, I think the changes that the Hospitals Board has made in terms of committees and everything are very much to be commended, and in fact maybe ought to be emulated. But I think that we really need to call attention to what significant things the Hospitals Board has done over the last year in terms of their structure and improving the information they're able to give us, and indeed the information that they themselves now know about the Hospitals and its administration.

Mr. Redman:

Well, I agree, Mr. Teaforde.

Mrs. Bowser:

Thank you. It hasn't been without a certain amount of pain.

Mr. Redman:

Any comments about Mrs. Bowser's report? If not, I had a couple of items. I'd like to ask Mr. Ihrig to review the MedOhio financial statements of -- did you give these to the other members of the Board, Mr. Ihrig?

Mr. Ihrig:

The Members of the Fiscal Committee had them and I apologize for not having copies for the other Board Members.

Mr. Teaforde:

Perhaps you can send those to us.

March 3 and 4, 1988 meeting, Board of Trustees

Mr. Ihrig:

Yes. The period of seven months through January 31, the operations of the MedOhio are running under the projected budget, as they have been and they're taking actions to make sure that these come closer to budget. The actual year-to-date detail, averaged daily, are running around 165 versus a budget of 200. And that's resulted in a loss during the seven month period of \$436,500, versus a projected loss of \$154,000.

As of December, the Great Western facility was closed as was in the original plan to eventually close that facility and look for other opportunities for that based on the actual volumes that they had seen before and were projecting on that. The amount of referrals from those facilities -- the Hospitals Board at the last meeting was provided information regarding referrals. There were a total of 1,241 referrals during the July through January period, of which 48 per cent, or 596, were referred to University Hospitals.

If you look at the data without the emergency room referrals, since they would be referred to the nearest hospital facility, the per cent of referrals to Ohio State increases to 52 per cent. That ranges from a high of 83 per cent from the Upper Arlington facility, down to a low of 32 per cent from the Great Western facility. And most of those -- the orthopedics and related services received the most referrals followed by the emergency department, otolaryngology, dermatology and neurology. So there are referral activities going on, and the operation of the facilities -- trying to bring in the expenditures to the level of revenues -- continues. The Hospitals have just recently entered into the new agreement with another physicians group who will do the operation, the medical operation, of these facilities. They're looking for a significant turn around, not only in the number of visits, but also in the number of referrals to University Hospitals.

Mr. Redman:

Do you recall, Mr. Ihrig, when we decided to engage in this activity and invest \$6 million in it, that we said at the time that we anticipated losses in the first couple of years?

Mr. Ihrig:

That's correct.

Mr. Redman:

But that the primary function was to help the medical department with referrals for basic medical services that seem to be declining at the University Hospitals. Is it realistic to assume that if someone is in Reynoldsburg, that they're going to be referred to Ohio State University and drive past Grant and Mercy or several other hospitals to get here?

Mr. Ihrig:

I think that depends on the medical specialty. In terms of

March 3 and 4, 1988 meeting, Board of Trustees

Mr. Ihrig: (contd)

emergency treatment, they will go to the nearest facility that can provide the service.

Mr. Redman:

So they wouldn't come here?

Mr. Ihrig:

Not for an emergency, but for other types of referrals that are on a nonemergency basis. Based upon the physician's evaluation in order to have those services done, then I think that the large majority of the referrals can be expected to come to University Hospitals, because "it isn't a case of having to get to the nearest facility." It's the physician that is needed and the type of medical service that they need that predominates in that instance.

Mr. Redman:

Has anybody made a survey of the people that actually attend your -- I suppose most of the Board knows it -- I used to be connected with Big Bear. We were continuously conducting surveys of the women that shopped in the stores, why they were there, why they didn't go there, why they shopped other stores, why they went to Kroger's, or whether it was because it was nearer, or the prices were better, or what.

Don't you think it might be appropriate to make some sort of survey of our own people here? And also it seems to me that MedOhio is not very well-known throughout the community, so that it seems to me we need to upgrade our advertising, or promotion, or something, to approach it in a business-like way.

Mr. Barone:

Professional.

Mr. Ihrig:

I agree with you, Mr. Redman. And the Hospitals, as they reported, are looking into taking steps along those lines, both looking at the cost side as well as looking at what is attracting people to MedOhio, and how to upgrade the number of people coming to the facility.

Mrs. Bowser:

They've been looking at that very issue. The first report they brought to us the Board didn't feel that it was comprehensive enough, that there were too few people interviewed. Dr. Jennings can back me up on this.

President Jennings:

Yes.

March 3 and 4, 1988 meeting, Board of Trustees

Mrs. Bowser:

They need to go back and do some more work before it is acceptable to us.

Mr. Redman:

Who did the interviewing, Mrs. Bowser?

Mrs. Bowser:

There's someone on staff now.

President Jennings:

Someone on staff, it was a very small sample. But the key was, on the general marketing plan, that in some areas it was far too broad a plan and in other areas was far too narrow. I hasten to add that our struggles on this involve the marketing of the overall Hospitals facilities.

Mrs. Bowser:

That's right.

President Jennings:

MedOhio will be an important piece of that, but a piece of that. We've asked our sales people in the Hospitals to come back with a revised proposal on the marketing of the Hospitals in general.

Mrs. Bowser:

I think there are two comments. If you may notice, if you watch TV, there is quite a bit of marketing of local hospitals done. And I think Ohio State -- and I don't have anybody here to comment to back me up -- I think we're looking at a way to market in keeping with our mission and our goal here, which is a little bit different than the private hospitals. One of the success stories, and Scottie can back me up on this, is our in-house insurance program which you call UAHF. This has had phenomenal success. So we know we have a good thing here. What we need to do is tell that story. I think a plan was proposed and it stopped with Dr. Jennings, who has now put himself in the marketing field and said no, this isn't the way we want to go, go back and work this out a little bit. We had quite a discussion at the last Board meeting about it.

Mr. Kessler:

Mr. Chairman?

Mr. Redman:

Yes, Sir.

March 3 and 4, 1988 meeting, Board of Trustees

Mr. Kessler:

In reading the statements -- and I know we were concerned when we made the investment -- in looking at the numbers, our losses are greater than we had projected by \$300,000. I think it might be appropriate, Weldon, either through you or through our representatives on the Hospitals Board, to ask at a meeting in the next couple of months maybe to have them report to us on what they're doing about it to get back to their projection, as well as how they are marketing. That may go into a broader issue which you're touching on now, how we're marketing the whole Hospitals. I think this is a marketing problem more than a cost containment problem. So I think it would be appropriate, Mr. Chairman, maybe to ask Mr. Immke and Mrs. Bowser to ask the Hospitals to come back to us within the next couple of months with a complete review of the marketing plan, with the Hospitals included specifically.

Mrs. Bowser:

I just don't want you Trustees to think we aren't working on it. We are working, but we aren't satisfied with the plan that's come before us so far.

Mr. Redman:

I think, Mrs. Bowser, the only judgment we can render is when we look at the statements, they're not good. We entered into it with our eyes open --

Mrs. Bowser:

That's right.

Mr. Redman:

It was totally laid out, but we did have certain expectancies. I'm only making a suggestion in the hope that it will help. When I was on the Turnpike Commission some years ago, we continuously received complaints about the food service in the restaurants. There are 17 of them and 241 miles. It's a captive audience if you're on the turnpike and you're 50 miles from nowhere.

Mrs. Bowser:

Same way with the Ohio State Parks. I know about food service.

Mr. Redman:

And it got so bad that the Commission decided to put our own inspectors out. Now, I suggest that whoever does your marketing survey should not be from the administration. We had our inspectors report directly back to the Commission. They didn't know when they went in, who they were, and it's surprising how quickly some of the restaurant operations shaped up. Now, we finally decided that we wouldn't give the whole turnpike to any one franchisee. We split it up, and it took a lot of steps. It took a year to get it straightened out, but

March 3 and 4, 1988 meeting, Board of Trustees

Mr. Redman: (contd)

it was bad, it really needed help. That's what I'm thinking here, it's not the same type thing, I'm only saying that your marketing survey is where we need some help.

Mrs. Bowser:

We'll take those comments back.

Mr. Teaford:

Mr. Chairman, too, I want to add something to what you had said before. I believe the principal reason we did this was an educational one. It might be useful to include in that report how we are doing on the educational mission of having MedOhios. I think we had no illusion that this wasn't -- we weren't going in this for the profit; we were going in this for educational purposes. I think that should be included in any report.

President Jennings:

Thank you, Mr. Teaford, that's a very important comment. That's one of the reasons that we were not satisfied with the marketing plan. It had a business emphasis only and not the educational and referral emphasis -- which is really the key -- to get our medical students, our residents, and our interns into an environment that is not just tertiary care. Because everyday our University Hospitals is becoming more of a tertiary care center. We want our students exposed to heart transplants, bone marrow transplants, major cancers, and so forth; but we also want them to be exposed to the common cold, pneumonia, and to appendectomies. Though you've all heard the speech before, we did a thousand heart procedures last year and only 17 appendectomies. When our students graduate, they're more likely to see an appendectomy than they are a heart procedure. And we need to have that balance. Thank you.

Mr. Redman:

If there's no other discussion, then I think we should put that in the minutes, Mr. Secretary, and ask the Hospitals Board to do as Mr. Kessler has requested.

I want to report on the Hospitals billing in response to Mr. Teaford's earlier instruction. I must say that it's been sort of like the tortoise and the hare, we haven't really dashed out there and gotten this job done. I must admit that it has complexities, and the doctors who are involved in it want to be sure that they don't end up on the short end of the stick. Dr. Tzagournis told me that Arthur Andersen had made a report. But when I met with the Price Waterhouse folks, I told them that I thought they should come back now with some sort of a detailed plan within 90 days. And the reason I said 90 days, was because of the fact that I'm going to be gone from here in 90 days. My term expires in May, and hopefully we would have something concrete to give the Board. We could have a fix on

March 3 and 4, 1988 meeting, Board of Trustees

Mr. Redman: (contd)

what it is we're going to do or we're not going to do, we're going to have a plan or we're not going to have a plan, and let's get it down on paper so everybody can look at it. If the doctors have complaints, let's get those all in this process before we develop the plan.

At the May meeting I hope to give you something that will spell out precisely how this is to be done. Now, it won't have all of the "T's" crossed and the "I's" dotted because it will take perhaps six months to install anything that everybody agrees on. It's not an easy task, but I think it's time that we get our teeth into it and have something specific to show how we're going to do it, and if we're going to do it, and everybody gets a chance for some input. So hopefully I'll have another meeting or two with the committee. They've requested that I do so. And I'm willing to help. Because I told the Price Waterhouse people I wasn't going to make the installation, because if I was, I would hope to get paid, you know. But I will be glad to participate and help in any way that I can. I think I can be helpful, but I'd like to get it done before I depart.

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REPORT - UNIVERSITY'S INVESTMENT PORTFOLIO

Resolution No. 88-102

RESOLVED, That the report on the University's Investment Portfolio, dated February 19, 1988, as submitted to the Fiscal Affairs Committee of the Board of Trustees, be received and filed with the official records of the Board.

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Thereupon the Board adjourned to meet Thursday, April 7, 1988, at The Ohio State University Fawcett Center for Tomorrow, Columbus, Ohio, at 6:30 p.m.

Attest:

Madison H. Scott
Secretary

Edmund C. Redman
Chairman

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APPENDIX III
Degrees Conferred at
THE OHIO STATE UNIVERSITY
COMMENCEMENT CONVOCATION
March 18, 1988

Commencement Speaker

Arno A. Penzias Doctor of Science

Arno Penzias is vice president of research at AT&T Bell Laboratories. His work at Bell Laboratories has included research in radio communications and related areas. He was among the scientists that worked on the pioneering Echo and Telstar® communications satellite experiments. Renowned for his scientific work in radio and astronomy, Arno Penzias shared the 1978 Nobel Prize in physics for his contribution in discovering evidence that supports the "big-bang" theory of the origin of the universe.

Penzias maintains close ties with the academic community and has held adjunct appointments at Princeton, Harvard, and SUNY Stony Brook. While he still conducts some personal research in astrophysics, the main focus of his current work is on the creation and effective use of information technology in society.

A native of Munich, West Germany, Penzias' college education began at the City College of New York, where he received a Bachelor of Science degree in 1954. After two years of service as an officer in the U.S. Army Signal Corps, he returned to college and earned both his master's and doctoral degrees from Columbia University. He has also received a number of honorary degrees and is the only American to hold an honorary doctorate from the Paris Observatory.

He is a member of the National Academy of Science and a number of other scientific and professional organizations. Penzias is a vice chairman of the Committee of Concerned Scientists, a national organization devoted to working for the political freedom of scientists in various countries. Ohio State welcomes him as speaker for this 303rd Commencement and is proud to honor him with a Doctor of Science degree for his lifetime of scientific achievement.

The Graduate School

Dean: Roy A. Koenigsnecht

Doctor of Musical Arts

Kim Andrei Lasarenko, Greenville, MI;
B.Mus.; M.M. (Notre Dame University);
Music
Dr. Rosemary D. Platt

Doctor of Philosophy

Fatima A. Bakir Abdulkarim, Qatar; B.A.
(Qatar University); *Home Economics*
Dr. Sharon V. Redick

Frank Wesley Abernathy, Jonesboro, AR;
B.S. (Arkansas State University); M.S.,
M.A. (University of Arkansas); S.C.C.T.
(Arkansas State University); *Zoology*
Dr. Ralph E. Stephens

Ali Yahya Al-Zahrani, Beni, Saudi
Arabia; B.A., M.A. (San Jose State
University); *Art Education*
Dr. Arthur Efland

Kaveripatnam Venkataraman
Balasubramanyam, Bangalore, India; B.E.
(Bangalore University); M.Tech. (Indian
Institute of Technology); *Civil Engineering*
Dr. Hojjat Adeli

Lisa Jane Ball, Catsauqua, PA; B.S.
(Mohlenberg College); *Medical
Microbiology and Immunology*
Dr. Deborah S. Parris

Robert Rocco Battista, Port
Washington, NY; B.S. (C. W. Post - Long
Island University); M.S. (Iowa State
University); *Health, Physical Education and
Recreation*
Dr. Barbara Nelson

Carl Brent Beamer, Malta, B.S. (Ohio
University); M.A. (Kansas State
University); *History*
Dr. Allan R. Millett

Salah El-Din Moustafa Blaih, Alexandria,
Egypt; B.S., M.S. (University of
Alexandria); *Pharmacy*
Dr. Carter L. Olson

Connie McSwain Blair, Wheeling, WV;
B.S.H.E., M.S. (West Virginia University);
Home Economics
Dr. Sharon S. Redick

Brenda K. Blessing, Columbus, IN; B.S.,
M.S. (Indiana State University); *Health,
Physical Education and Recreation*
Dr. Barbara A. Nelson

Gregory Scott Blimling, Baton
Rouge, LA; B.A., M.S. (Indiana
University); *Education*
Dr. Robert J. Silverman

Eloise Marilyn Boyle, Salinas, CA; B.A.
(University of Vermont); M.A.; *Slavic and
East European Languages and Literatures*
Dr. George Kalbous

Klaus Buchenrieder, Ottobern/R, West
Germany; Fachhochschulreife
(Fachoberschule Munchen); Dipl.Ing.
(Fachhochschule Munchen); M.S.;
Computer and Information Science
Dr. Neelam Soundararajan

Jocelyn Wieck Burke, Florence, KY; B.S.
(University of Tampa); *Pharmacy*
Dr. Raymond W. Doskotch

Arnoldo Ricardo Camacho, San Jose,
Costa Rica; Licenciado (Universidad de
Costa Rica); M.A.; *Agricultural Economics
and Rural Sociology*
Dr. Claudio Gonzalez-Vega

Garret D. Cawthon, Louisville, KY; B.S.,
M.S. (University of Louisville); *Chemical
Engineering*
Dr. Kent S. Knaebel

Roger Harold Cayton, Columbus; B.A.
(DePauw University); *Chemistry*
Dr. Bruce E. Bursten

Donald Edwin Christenson, Columbus;
B.A.; M.A. (Indiana University of
Pennsylvania); *Music*
Dr. Keith E. Mixter

Young Ryun Chung, Seoul, South Korea;
B.S., M.S. (Seoul National University);
Plant Pathology
Dr. Harry A. Hoitink

Pedro J. Cortes, Popayan, Colombia;
M.Sc. (University of Wisconsin);
Agricultural Economics and Rural Sociology
Dr. William L. Flinn

Kathryn June Cox, Waverly; B.S.H.E.,
M.S.; *Home Economics*
Dr. Sharon V. Redick

Warren Harlan Dick, Toledo; B.A., M.A.
(George Washington University); *Slavic
and East European Languages and Literatures*
Dr. Aneliya E. Rugaleva

Eric David Evans, Stow; B.S.E.E., M.S.;
Electrical Engineering
Dr. Stuart A. Collins

Kathryn Margaret Feltey, Columbus;
B.A., M.A. (Wright State University);
Sociology
Dr. Kent P. Schwirian

Steven Charles Felton, Dayton; B.A.
(Miami University); M.S. (Wright State
University); *Microbiology*
Dr. Julius P. Kreier

Jeffrey Thomas Fiske, Basking Ridge, NJ;
B.A. (Susquehanna University); M.A.
(Montclair State College); *Theatre*
Dr. George P. Crepeau

Joan M. Fobbs, Essex Junction, VT; B.S.,
M.S. (Wright State University); *Education*
Dr. Virgil Blanke

Jose Donato Fortin, Tegucigalpa,
Honduras; B.A. (Stonehill College); M.S.,
M.S.; *Engineering Mechanics*
Dr. William E. Clausen

Afan Gaffar, Yogyakarta, Indonesia; B.A.,
D.R.S. (Gadjah Mada University); M.A.
(Northern Illinois University); *Political
Science*
Dr. William Liddle

Thomas D. Getman, Buffalo, NY; B.S.
(State University of New York); M.S.;
Chemistry
Dr. Sheldon G. Shore

Patrick Heinrich Ghanaat, Dusseldorf,
West Germany; Diplom-Mathematiker
(Bonn University); *Mathematics*
Dr. Ernst A. Ruh

Nina Roosevelt Gibson, Alexandria; B.A.
(New School for Social Research); M.A.;
Psychology
Dr. Philip M. Clark

Beverly Elaine Girtten, Dayton; B.S.
(Miami University); M.S. (University of
Akron); *Health, Physical Education and
Recreation*
Dr. A. John Merola

Gretchen Muekenheim Glasgow,
Westerville; B.S. (Capital University);
M.S.; *Health, Physical Education and
Recreation*
Dr. Mary K. Beyrer

Michele Morath Gottschlich, Cincinnati;
B.S. (University of Dayton); M.S. (Case
Western Reserve University); *Home
Economics*
Dr. Jean T. Snook

Geraldine LaCourt Grinstead,
Wautoma, WI; B.S., M.S. (University of
Wisconsin); *Speech and Hearing Science*
Dr. Lida Wall

Paul Arthur Grygiel, Marion; B.E.E., M.S.
(University of Dayton); *Electrical
Engineering*
Dr. Hooshang Hemami

Ann Elisa Haertling-Lint, Dublin;
B.Mus., M.Mus.; *Music*
Dr. Jerry E. Lowder

Panayiotis A. Hantzios, Columbus; B.A.
(National University of Athens);
Astronomy
Dr. Ronald H. Kaitchuck

James Roy Harris, Ashville; B.A.
(Earlham College); M.S. (Miami
University); *Education*
Dr. Judy L. Genshaft

Siavash Hashemi, Tehran, Iran; B.S., M.S.
(The University of Oklahoma); *Nuclear
Engineering*
Dr. Don W. Miller

- Michael John Higgins-Luthman**, Livonia, MI; B.S. (University of Dayton); M.S.; *Biophysics*
Dr. Carl R. Ingling
- Shirley Brindle Huelsman**, York, SC; B.A., M.A. (Winthrop College); *Education*
Dr. Gilbert A. Jarvis
- James Hui**, Toronto, Ontario, Canada; B.Sc.Ph.M. (University of Toronto); *Pharmacy*
Dr. Richard H. Reuning
- Judythe Ann Hummel**, Solon; B.S. (Bowling Green State University); M.A. (University of Evansville); M.S. (University of Akron); *Education*
Dr. Luvern L. Cunningham
- Meleesa Anne Hunt**, Columbus; B.A., M.A.; *Education*
Dr. Donald J. Tosi
- Franklin Delano Hurt, Jr.**, Columbus; B.A. (Capital University); M.S.; *Education*
Dr. Jack A. Naglieri
- Barbara Schnuttgen Jurasek**, Richmond, IN; B.A. (Youngstown State University); M.A.; *Education*
Dr. Gilbert A. Jarvis
- Mohan V. Kalkunte**, Bangalore, India; B.E. (Bangalore University); M.S. (Syracuse University); *Industrial and Systems Engineering*
Dr. Wilbert E. Wilhelm
- Roland Doyle Kankey**, Enon; B.S. (Wichita State University); M.S. (Oklahoma State University); M.A.; *Business Administration*
Dr. Glenn W. Milligan
- Paul Nick Kardulias**, Campbell; B.A., M.A. (Youngstown State University); M.A. (State University of New York); *Anthropology*
Dr. William M. Sumner
- Vicky Jo Kirschner**, Pataskala; B.S., M.Ed. (Miami University); *Education*
Dr. Alan R. Osborne
- Thomas Alan Kocarek**, Painesville; B.S.Pharm.; *Pharmacy*
Dr. Dennis R. Feller
- George Albert Kohlrieser**, Wapakoneta; B.A., M.A. (University of Dayton); *Education*
Dr. Joseph J. Quaranta
- Elizabeth Mary Kudlacz**, Parma; B.S.Pharm.; *Pharmacy*
Dr. Lane J. Wallace
- Chiehwen Lai**, Taiwan, R.O.C.; B.S. (National Taiwan University); M.A.; *Psychology*
Dr. Dean H. Owen
- Der Ming Lieu**, Tainan, Taiwan, R.O.C.; B.A. (National Taiwan University); M.A., M.S.; *Economics*
Dr. Edward J. Kane
- Kenneth Richard Lord**, Salt Lake City, Utah; B.A., M.A. (University of Utah); *Business Administration*
Dr. Robert E. Burnkrant
- Syahron Lubis**, Padang, Indonesia; B.S., DRS. (FKT-IKIP Yogyakarta); M.Ed. (Sam Houston State University); *Vocational Education, Comprehensive Program*
Dr. J. Robert Warmbrod
- Matthew Christopher Maher**, West Islip, NY; B.A. (State University of New York); M.A. (Saint John's University); *Sociology*
Dr. Kent P. Schweirian
- Andrew John Mair**, Lincoln, England; M.A. (Saint Andrews University); M.A.; *Geography*
Dr. Kevin R. Cox
- Chrisoula Grace Masselos**, Sydney, Australia; B.A. (Macquarie University); M.A.; *Education*
Dr. Elisa Klein, Dr. Judith Green
- Janice-Marie McDonald**, Jamestown, NY; B.A. (Wittenberg University); M.A.; *Romance Languages and Literatures*
Dr. Wayne Redenbarger
- Martin Donald McKay**, Cambridge; B.S. (Florida Southern College); M.A. (Eastern Kentucky University); *Education*
Dr. Raymond Swassing
- John Randolph McMurphy**, Bartlesville, OK; B.A. (Vennard College); M.A. (Azusa Pacific University); *Home Economics*
Dr. Penelope S. Griffing
- Timothy Patrick Meagher**, Hicksville, NY; B.A. (State University of New York); *Chemistry*
Dr. Harold Shechter
- Girija Muralidhar**, Nellore, India; B.Sc. (S.V. University); M.Sc. (M.S. University); *Physiological Chemistry*
Dr. Ronald W. Trewyn
- Mongaring Yakubu Musa**, Kaltungo, Nigeria; B.Ed. (University of Maiduguri); M.A.; *Education*
Dr. Robert B. Donmoyer
- Amornwich Nakornthap**, Bangkok, Thailand; B.Ed. (Chulalongkorn University); M.S. (Florida State University); M.A.; *Education*
Dr. James W. Altschuld
- Charles Kenneth Nicholas**, Flint, MI; B.S. (University of Michigan); M.S.; *Computer and Information Science*
Dr. Sandra A. Mamrak
- Beverly Anne Orr**, Columbus; B.A., M.A.; *History of Art*
Dr. Franklin M. Ludden
- Yong Joon Paek**, Seoul, South Korea; B.Sc., M.Sc. (Seoul National University); M.S.; *Civil Engineering*
Dr. Hojjat Adeli
- Jeannine C. Pondozi**, Albany, NY; B.A. (The College of Saint Rose); M.A. (State University of New York); *Communication*
Dr. William R. Brown
- Pamela Lane Ramey**, Cambridge; B.S. (Kent State University); M.S. (Bowling Green State University); *Education*
Dr. Thomas R. White
- Raul Ramirez**, Columbus; B.S. (Universidad Distrital); M.S.; *Geodetic Science and Surveying*
Dr. Dean C. Merchant
- Mark Stephen Reeder**, Columbus; B.A. (Humboldt State University); M.S. (University of Oregon); *Mathematics*
Dr. Avner D. Ash
- Ibrahim Fathalla Rehab**, Alexandria, Egypt; B.S., M.S. (Alexandria University); *Agronomy*
Dr. Leo E. Bendixen
- Lu Ann Ricketts**, Boone, IA; B.A. (Bowling Green State University); M.S. (Ohio University); *Home Economics*
Dr. Lucy R. Sibley
- Maria Carmen Fayos Riddel**, Huntington, WV; A.B. (Marshall University); M.A. (Universidad de Salamanca); *Romance Languages and Literatures*
Dr. Stephen J. Summerhill
- Soenarto Saputro**, Yogyakarta, Indonesia; B.S., M.S. (FPTK-IKIP); M.S. (State University of New York); M.A.; *Education*
Dr. William D. Umstatt
- Yih-Chyun Sheu**, Taipei, Taiwan, R.O.C.; B.S. (National Central University); M.S.; *Engineering Mechanics*
Dr. Carl H. Popelar
- Chun Hsieh Shih**, Taipei, Taiwan, R.O.C.; B.S. (National Taiwan Normal University); M.S. (Central Connecticut State University); *Education*
Dr. E. Keith Blankenbaker
- Alphonso Simmons**, Columbus; B.A. (Fort Valley State College); M.A.; M.S.W.; *Education*
Dr. James V. Wigfil
- Luke Springman**, Columbus; B.A. (Indiana University); M.A.; *German*
Dr. Helen Feherary
- Joseph Anthony Testa**, Parlin, NJ; B.S. (Michigan State University); M.S.; *Physics*
Dr. James R. Gaines
- Deborah Lynn Thompson**, Nashville, TN; B.S. (Tennessee State University); M.A.; *Education*
Dr. Johanna S. DeStefano

Jerming Tseng, Taipei, Taiwan, R.O.C.; B.S. (Fu-jen Catholic University); M.S.; *Microbiology*
Dr. Richard F. Mortensen

Sarah Satorius Vandermeer, Columbus; B.S. (University of New Mexico); M.S. (Northern Illinois University); *Education*
Dr. John B. Hough

Anthony James Wagner, Columbus, IN; B.S. (Purdue University); *Physics*
Dr. Evan R. Sugarbaker

Jill Kristin Welch, Livonia, MI; B.A. (Alma College); M.A. (University of Maine); *Education*
Dr. Gilbert A. Jarvis

Yeong-show Yang, Tainan, Taiwan, R.O.C.; B.S. (National Taiwan University); M.S. (University of Alabama); *Chemical Engineering*
Dr. Ly J. Lee

Sui Hua Yuan, Chungking, Taiwan, R.O.C.; B.A. (Xian Jiaotong University); M.S.; *Physics*
Dr. Philip E. Wigen

Mark Arthur Zajac, Dolton, IL; B.S., M.S. (Purdue University); *Entomology*
Dr. Franklin R. Hall

Master of Architecture

Amy Acampora, Yonkers, NY; B.A. (Wesleyan University); *Architecture*

Sylvain Boulanger, Sutton, Canada; B.Arch. (McGill University); *Architecture*

Michael John Cislo, Livonia, MI; B.S.Arch., B.A.Arch. (Lawrence Institute of Technology); *Architecture*

Jose Gabriel Esquivel, Llantén, Mexico; B.Arch. (National University); *Architecture*

Mark Richard Hollern, Columbus; B.S. (Miami University); *Architecture*

Chun-Wei Huang, Kaohsiung, Taiwan, R.O.C.; B.S. (Chung-Yuan Christian University); *Architecture*

Eric Stephen Lagerberg, Columbus; B.A.Arch. (University of Washington); *Architecture*

Stephen Roka II, Columbus; B.F.A., B.S.Arch.; *Architecture*

Master of Arts

Siti Arbi Binti Abdul Muin, Kedah, Malaysia; B.A. (Ohio University); *Education*

James Frederick Adams, Fraser, MI; B.A. (Wayne State University); *Economics*

Rebecca Richards Ament, Worthington; B.A. (Guilford College); *Education*

Pamela Uchenna Anigbo, Enugu, Nigeria; B.A. (Schiller International University); *Romance Languages and Literatures*

Wuong Au-Yuen, Hsinchu, Taiwan, R.O.C.; B.A. (National Taiwan University); *Economics*

Doreen Booth Barr, Worthington; B.S. (Adelphi University); *Education*

Mark Patrick Barren, Lyndhurst; B.S. (Wittenberg University); *Health, Physical Education and Recreation*

Lynne Sharon Barst, Dayton; B.S.Ed.; *Geography*

Steven Mitchell Bayne, Columbus; B.A. (Evangel College); *Philosophy*

Kellie Harrison Bean, Columbus; B.A.; *English*

Nancy Cline Beattie, Powell; B.S.Ed.; *Education*

Thomas Edwin Becker, Kirkwood, MO; B.A. (University of South Florida); *Psychology*

Karen Lynn Blozia, Columbus; Cert.Dent.Hyg., B.S.Ed.; *Health, Physical Education and Recreation*

Gordon LeCompte Bolmer, Findlay; B.A. (Ohio University); *History*

Scott William Boyer, Zanesville; B.S. (University of South Carolina); *Public Administration*

Jamie Colette Capuzzi, Pittsburgh, PA; B.A. (Mount Union College); *Communication*

Robert Leroy Carstensen, Curtice; B.A., B.S.; *Economics*

Hsing-Fang Jennifer Chiang, Taiwan, R.O.C.; B.A. (Fu-jen Catholic University); *Education*

Eun-Jin Cho, Seoul, South Korea; B.A. (Ewha Womans University); *Education*

Sung-Mo Choi, Masan City, South Korea; B.P.A., M.A. (Korea University); *Political Science*

David A. Coia, Columbus; B.A. (Kent State University); *Journalism*

Diana Lee Cook, Columbus; B.S.Ed.; *Education*

Donna L. Crace, Lyndon; B.S. (University of Dayton); *Education*

Pearlene Fitz Delph, Columbus; B.S.Ed.; *Education*

Marcia Lynn Dewhurst, Columbus; B.A. (University of Dayton); *Communication*

Debra Jean Elliott, Edmonds, WA; B.S. (University of Washington); *Psychology*

Sarah Ely, Reynoldsburg; B.A. (Emory and Henry College); *Education*

Roger Steven Evans, Reynoldsburg; B.S. (Columbia Union College); M.Div. (Andrews Theological Seminary); *History*

Betty Jane Felch, Dublin; B.S. (Defiance College); *Education*

Todd Armstrong Fitch, Worthington; B.A. (Ohio Wesleyan University); *Health, Physical Education and Recreation*

Garold John Flach, Marion; B.M. (Capital University); *Music*

Eleanor Ann Freeland, Bridgeport, PA; B.A. (East Stroudsburg University); *Romance Languages and Literatures*

Sarah Tobitt Freeman, Worthington; B.F.A.; *Photography and Cinema*

Judith Lynne French-Berry, Sebring; B.A.; *History*

Mark William Gallant, Zanesville; B.Mus. (Muskingum College); *Music*

Holly Wilson Garrison, Marietta; B.A.; *English*

Lawrence William Gill, Columbus; B.S.Ed.; *Education*

Michael Francis Goethals, Mt. Clemens, MI; B.A. (University of Michigan); *History*

Venkatesh Ramabhadran Gomatam, Madras, India; B.A. (Vivekananda College); *Communication*

Carol Jane Grant, Granville; B.F.A. (Ohio Wesleyan University); *History of Art*

Sharon Sharum Grumbia, Elida; B.S.Ed.; *Education*

Diane Nicole Haddad, Columbus; B.F.A., B.S.Ed. (Ohio University); *Art Education*

Kathleen Harkins, Southwest Harbor, ME; B.A. (Seattle Pacific University); *Slavic and East European Languages and Literatures*

David Earl Harrison, Valdosta, GA; B.A. (North Carolina A & T State University); *Political Science*

Linda Spillers Hegler, Columbus; B.S.Ed.; *Education*

Jennifer Mary Heid, Columbus; B.A.; *Philosophy*

Lorraine Ann Hilton, Pickerington; B.S. (Bowling Green State University); *Education*

William Lloyd Huston, Toledo; B.A. (University of Toledo); *Education*

Mary Margaret Hutchison, Lima; B.F.A. (Wittenberg University); *Art Education*

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 Cynthia Jeanne Butler, Chardon
 Ronald Frank Centrello, Jr., Boardman
 Nasir Chaudhri, Lahore, Pakistan
 Jeffrey Lee Cisco, Oak Hill
 Susan Karrington Comtesse, Columbus
 Mary Evelyn Coolman, Wadsworth
 Greg Steven Coulson, McConnessville
 John F. Cribbs, Columbus
 Eric Todd Dau, Millington, NJ
 Diane Renee David, Newark
 Kimberly Ann Davies, Columbus
 Leslie Ann DiMario, Lakewood
 Jeannie Louise Dixon, Columbus
 Jeffrey William Drake, Portsmouth
 Nicola Anita Duhaney, Reynoldsburg
 Anthonia Akwaugo Duru, Umuunum, Mbano, Nigeria
 Melissa Anne Dustman, Troy
 Kathleen Ann Falvey, Toledo
 Edward Arthur Frantz, Upper Sandusky
 Gary Mattis Freedman, Williamsville, NY
 Greg Christopher Goldie, Chardon
 Patricia Ann Gordon, Columbus
 Stanley Peter Gorman, Springfield, MA
 April Dawn Graham, Northup
 Teresa Ann Gray, Columbus
 William Bryan Gribble, North Olmsted
 Sandra Kay Gross, Groveport
 Alan Joseph Gursal, Fairview Park
 Thomas Hall Gynn, Dublin
 Susan Marie Hanf, Columbus
 Anthony Harry Heintz, Wapakoneta
 Gregory Burke Hermes, Maumee
 Robin Diane Huff, Dayton
 Darren Timothy Huggins, Cleveland
 Karen Lynn Ipe, Centerville
 Raymond Lee Jackson, Akron
 Kendall Boyd Jarrell, Cleveland
 Alisa Tarette Johnson, Cincinnati
 Eric Paul Jones, Worthington
 Theresa Lee Jones, Columbus
 Kelly Rae Jordan, Williamsburg
 George Kagafas, Grandview Heights
 Rachel Alexis Kates, San Antonio, TX
 Thomas James Kaul, Columbus
 Beth Anne Kelley, Findlay
 David Lee Kinner, Baltimore
 Kathleen Michele Kritzer, Dayton
 Nancy Kay LaFever, Columbus
 Chad Laurence Lape, Delaware
 Robert John Lesiacsek, Painesville
 Steven Frederick Liebes, Sylvania
 Kelly Sue Linstedt, Waldo
 Susan Marie Little, Toledo
 Lauren Joy Litton, Pepper Pike
 Mark Edward Malvaso, Port Byron, NY
 Daniel Lee Martin, London
 John Anthony Martin II, Antwerp
 Patricia Carolyn Martin, Columbus
 Timothy Clayton Maurice, Westerville
 Amy Mayfield, Fayetteville, AR
 Nanci Marie Melfi, Columbus
 Peter Anthony Mennetti, Mansfield
 Wendy Jo Meshula, Canfield
 Jamie Louise Milem, Sunbury
 Philip Daniel Morrison, Wauseon
 Michele Lynn Mueller, Skaneateles, NY
 Valerie Ann Murchake, Columbus
 Anuradha H.K. Murthy, Montgomery, WV
 Laurie Ann Nihiser, Mayfield Heights
 Amy Elizabeth Nill, Pickerington
 Thomas Edward Nolan, Dublin
 Dolores Ann O'Brien, Columbus
 James Edward Olmstead, Mount Vernon
 Jennifer Ann Ott, Tipp City
 Sara Ellen Panzarella, Fairport Harbor
 Tim Allan Pickens, Marion
 Annette Marie Pryor, Huber Heights
 Julia Marie Pudlicki, Toledo
 Tracey Susan Quilligan, Upper Arlington
 Rick Allen Randall, Mansfield
 Scott Allen Rich, Whitehall
 Stephen Charles Roberts, Dayton
 Faith Ware Rothwell, Dayton
 Julie McLoughlin Rutledge, Columbus
 Michael Edward Sachs, Columbus
 James Henry Saicius, Painesville
 Lisa Maria Sample, Springfield
 David Alan Sams, Columbus
 Steven Otto Santos, Worthington
 Katerina Gjorgievski Sarafov, Columbus
 Robert Joseph Scavina, Boardman
 Deborah Beth Seely, Terrace Park
 Stanley Joseph Sewall III, Cincinnati
 Don Fitzgerald Sheldon, Dublin
 Laura Jean Shepard, Reynoldsburg
 Jeffrey Bernard Shivers, Middleport
 Anne Evangeline Slater, Cincinnati

Lisa Gaye Slemmons, Marion
 Ted John Smith, Cincinnati
 Douglas Matthew Standriff, Cincinnati
 Barbara Jo Steck, Brookville
 Laurence Robert Stott, Columbus
 Trisha Marie Stull, Columbus
 Christine Marie Thill, Bay Village
 Kelli Sue Thomas, Centerville
 Michael Arthur Trap, Columbus
 Beth Ann Trapasso, Columbus
 Vincent Parnell Traylor, Massillon
 Patrick John Tulley, Kirtland
 Allen Scott Turpin, Hillsboro
 Robert Roger Vela, Westlake
 Judith Lyn Voight, Worthington
 James Earl Webb, Sturgis, MI
 Mark Phillip Weisman, Hamilton
 Erich Helmut Weiss, New Bremen
 David Alan Wilkins, Cleveland
 Robert Eugene Wilkins, Chicago, IL
 Judith Ann Willey, Newark
 Joseph Robert Williams, Marion
 Lori Dianne Williams, Circleville
 Steven Bruce Williams, Newark
 Mary Theresa Wise, Columbus
 John Roger Wright, Columbus
 Michael David Young, Kilmarnock, Scotland
 April Joan Zaas, Columbus

Bachelor of Science

James Michael Boehm, Brook Park
 Laura Ann Brannon, Centerville
 Patricia Ann Ednie, St. Clairsville
 Jill Marie Goheen, Huntington, WV
 Kenneth Alan Meeks, Kettering
 Stephen Vincent Ramsey, Dover
 Rick Owen Silverman, Cincinnati
 Julie Ann Thomas, Dayton
 Linda Leigh Thompson, Yorkville
 Christopher John Timan, Mansfield
 Richard Allen Wrona, Euclid

School of Journalism

Bachelor of Arts in Journalism

Mary Patricia Adler, Fairview Park
 Anna Marie Al-Khoury, Columbus
 Erik Whitney Allaben, Cincinnati
 Jeffrey Jay Allison, Findlay
 Kimberly Louise Augur, East Liverpool
 Christine Lucille Auten, Orrville
 Susan Bernadette Bass, Columbus
 Kelli Denise Blackwell, Columbus
 Mary Elizabeth Bohner, Medina
 Laurie Anne Boland, North Canton
 Kimberly Ann Brown, Greenville
 Gail Ann Bushman, Cincinnati
 Kathleen Therese Carey, Columbus
 Doral Chenoweth III, Columbus
 Marilyn Heather Conway, Columbus
 Colleen Mary Curley, Kettering
 Kathleen Davis, Cincinnati
 Denise Marie Dufala, North Olmsted

Kimberly Ann Durk, Bay Village
 Lori Ann Ebihara, Oberlin
 Valerie Marie Faler, Brunswick
 Michele Marie Flynn, Independence
 Denise Marie Hildebrandt, North Olmsted
 Glen Byrl Keller III, Westlake
 John Robert Kelly, Troy
 Karen Lynne Langenbahn, Centerville
 Dianna J. Lathrop, Delaware
 Melinda Jo Lind, Westerville
 Laura Annette Manning, Hiram
 David Ray Martin, Columbus
 James Joseph McCann, Columbus
 Mark Joseph Meeker, Hudson
 Jodi Lynn Miller-Wagner, Columbus
 Kathryn Ann Monda, Ashtabula
 Elizabeth Jean Moran, Upper Arlington
 Alan Edwin Peterson, Columbus
 Michael David Pickard, Centerville
 Bradley Darrell Poston, Columbus
 Todd Marcel Romain, Munroe Falls
 Caroline Jane Satterfield, West Union
 Rhonda Lea Sigman, Pickerington
 Christine Louise Stack, Toledo
 Michele Annette Tesone, Youngstown
 Matthew Edward Thompson, Groveport
 Karla Elaine Thornhill, Columbus
 Paulette Mitchell Tiggs, Beachwood
 Hugh Thomas Tobin, Shaker Heights
 Kenneth Joseph Torisky, Tallmadge
 Tracy Denise Townsend, Cincinnati
 Ronald Curtis Toy, Columbus
 Lynette Claire Tussing, Baltimore
 Steven Douglas Young, Lexington

College of Agriculture

Dean: Frederick E. Hutchinson

Bachelor of Science in Agriculture

John Lawrence Agle, South Vienna
 Deborah J. Alkire, Galena
 Sherri Lynn Ames, Hillsboro
 Keith Thomas Birkhold, Antwerp
 Kimberly Lucille Bresler, Bloomdale
 David Hugh Chronister, East Liverpool
 Gary Michael Conrad, Coolville
 Donald Henry Cox, Jr., Columbus
 Lynn Ann Davis, West Lafayette
 Jeffrey Allen Draper, Jeromesville
 Greg Alan Eichenauer, Celina
 Roberta Eilene Fike, Medina
 Alice Marie Fry, Columbus
 Timothy Lee Hoberty, New Carlisle
 Mark William Hoffman, Wellington
 William Harold Holcomb, Albany
 Anthony Dean Howerton, Columbus
 James Robert Jepsen, Canal Winchester
 Christopher Douglas Johnson, Columbus
 Keith Kresina, Solon
 Darren Eugene Langhals, Columbus
 Grove
 John A. Lemmermann, Helena
 Roy Brian MacCutcheon, Lebanon
 Jo Ann May, Worthington

Mark Anthony Miklas, Grove City
 Benjamin Beechy Miller, Millersburg
 Kevin Ray Miller, Celina
 Vonda Kay Mohrfield, Pleasant Plain
 Gregory Joseph Molyet, Tiffin
 Elizabeth Ann Murphy, Sunbury
 John Kevin Murray, Columbus
 Jon Arthur Mykrantz, Wooster
 John Page Newman, Seaman
 Mark Richard Nichol, Lisbon
 Brian Bookwalter Petzel, Kingston
 David Charles Rider, Columbus
 Sharmila Madhusudan Ruparel, Columbus
 Cathleen Marie Sammler, Lancaster
 Nancy Ann Schutte, Fairfield
 Charles Brian Seimer, Kingston
 Robin Joyce Sekerak, Columbus
 Dirk Emanuel Shearer, Delaware
 John R. Shives, Greenville
 Lynda Lee Shultz, Canton
 James Trenton Snavley, Anna
 Andrew Dow Stickley, Urbana
 Todd Kenneth Stickley, Urbana
 John Clinton Stier, Columbus
 Patricia Kay Strickland, Lucasville
 Alison D. Thomas, Columbus
 Ronald Thomas Trivisonno, Galena
 Douglas Eugene Tropp, Springfield
 Jennifer Lynn Walters, Worthington
 Thad Alan Welch, Ada
 Christina Marie Wiegand, Cridersville
 Jerry L. Wilson, Marion
 Annette Jean Winchester, Columbus
 Sherry Annette Winn, Marengo
 David Ross Wolf, Kenton
 Brent Dale Ziegler, Wellington
 Miles Miller Zimmerly, Orrville
 Frederick Joseph Zimmerman, Jr., Fairport, NY

Bachelor of Science in Food Science

Mary Kathryn Dickes, Canton
 Jennifer Leigh Emmert, Harrison
 Judith Marie Rothermel, Worthington

Bachelor of Science in Nutrition

Emma C. Stires, Westerville

School of Natural Resources

Bachelor of Science in Natural Resources

Shaun William Allen, Columbus
 Daryl Lee Apple, Port Clinton
 Andrew Gerard Baechle, Cincinnati
 Mark Daniel Colburn, Wooster
 Jeffrey Lee Hemphill, Canton
 Mary Theresa Johnstone, Cincinnati
 Denise Ethel Mullett, Mt. Gilead
 David Lawrence Pflaumer, Pittsburgh, PA

James Albert Reding, Granville
 Gregory Alan Roth, Strongsville
 Kimbra Lee Smith, Norwalk

Agricultural Technical Institute - Wooster

Associate in Applied Science

Kenneth James Clement, Lima
 Sharon Rosalie Dragics, Urbana
 Andrew James Drange, Big Timber, MT
 Keith Aaron Ensign, McComb
 Edward Thomas Figler, Jr., Willoughby
 Michael Anthony Giancola, Mentor
 Brant E. Giere, Brecksville
 Cynthia Jacob, Columbia Station
 Bryan Gene Karhoff, McComb
 Duane Martin Klein, North Canton
 Richard John Kramer, Youngstown
 Douglas Albert Lantis, Red Wing, MN
 Edward Michael Leskey, Youngstown
 Chris Douglas Linville, Chardon
 Jerry Scott Machamer, Hartville
 Annette Maria Manning, Lexington
 Mark Lee McDonald, Fostoria
 Tim Allen Moorehead, Cambridge
 Patrick James Murphy, Akron
 Douglas David Rhoades, Greenville
 Arthur Jay Traxler, Jr., Norwalk
 Paul A. Walsh, Doylestown

College of Business

Dean: H. Justin Davidson

Bachelor of Science in Business Administration

Tim Alan Adams, St. Marys
 Michael John Adiatori, Cincinnati
 Tamalisa Leot Al-Sultan, Columbus
 Cassandra Marzetta Aldridge, Columbus
 Jeffrey Alan Alexander, Ashland
 Jeffery Dean Alexander, Dayton
 Rafal Andrzejewski, Warszawa, Poland
 Kevin Lee Arsham, Beachwood
 Richard Alan Arthurs, Port Union
 Jeffrey Paul August, Worthington
 Mohammad F. Baddar, Columbus
 Joy Michelle Ball, Canton
 Jeffery Lee Ballard, Marion
 Douglas Jay Banbury, Glenmont
 Daniel Ray Barnett, Willard
 John Frederick Baumer, Columbus
 Albert Keith Beach, Rawson
 Charles B. Bender, Upper Arlington
 Nancy Anne Benton, Worthington
 M. Catherine Bertino, Chesterland
 Cathy Ann Biddle-Riccio, Youngstown
 Suzanne Elaine Blue, Rio Grande
 Lisa Ann Boggan, Cleveland
 Patrick Alan Brailer, Nashport
 Gregory Takashi Broner, Fitchburg, MA

Charles George Brown III, Columbus
 Todd Warren Burdin, Fairfield
 Bradley Eugene Burget, Pickerington
 Douglas E. Burns, Cincinnati
 Margaret Aldrich Burton, Battle Creek, MI
 Jeffrey Keith Butcher, Sandusky
 Andrea Lyn Butryn, Poland
 Louis Joseph Cariozzi, Chesterland
 Brennan John Cavanaugh, Worthington
 Douglas March Ceccardi, Lyndhurst
 Arthur Joseph Cerimele, Youngstown
 Marlon R. Charles, Mechanicsburg
 Tin-Lap Jack Chiu, Hong Kong
 Michael Scott Christian, Columbus
 Dok Sang Chua, Tampin, Malaysia
 Craig Anthony Conner, Lima
 Thomas Robert Contini, Marysville
 Craig Steven Corson, Columbus
 Bruce Ward Cosgray, Plain City
 Gregory Lee Cottrell, Berlin Heights
 Thomas Leo Coughlin, Columbus
 Jeffrey Ray Curtis, Mansfield
 John Ilija Cvetkovski, Reynoldsburg
 Karen Lynn Darwin, Columbus
 Gary Lee Davis, Columbus
 Marcella H. Davis, Cincinnati
 Steven Henry Davis, Kettering
 Anthony Louis DeLuca, Lorain
 Michelle M. Dietsch, Edgerton
 Rebecca Lynn Dillon, Columbus
 Denise Michelle Dittmar, Nashport
 Shane M. Dodson, Columbus
 Kenneth Marc Dolin, Beachwood
 Therese Donahay, Dublin
 David M. Dorsey, Cincinnati
 Brian Nelson Dulaney, Columbus
 Richard Gordon Dunlop, Columbus
 James Michael Dustin, Chagrin Falls
 Deborah E. Earl, Washingtonville, NY
 Morgan Douglas Ebin, Reynoldsburg
 Cynthia Lynn Ebner, Columbus
 Mark Frederick Eppert, Upper Arlington
 Ross Phillip Farone, Mentor-on-the-Lake
 Eric Scott Fenner, Columbus
 Alfred Douglas Fernandez, Columbus
 Jorge Ivan Fernandez, Juárez, Chihuahua, Mexico
 Timothy Joe Fernandez, Russells Point
 Denise Fickle, Columbus
 Deloras J. Fields, Westerville
 Gary Gene Fiorucci, Broadview Heights
 John Raymond Fisch, Cincinnati
 Jeffrey David Fish, Portsmouth
 Peter M. Fleck, Youngstown
 Craig Ward Foster, Columbus
 Jack L. Foster, Canal Winchester
 Mark Anthony Furlong, Fairview Park
 Casey Colleen Gale, Reynoldsburg
 Daniel V. George, Long Branch, NJ
 Melinda Jo George, Columbus
 Heidi Kristine Getz, Pemberville
 Michele Yvette Geyer, Columbus
 Linda M. Gillespie, Plain City
 Thomas Gladyszewski, Parma
 Jon M. Glass, Sidney
 Siok Yen Goh, Singapore
 Daniel L. Gregory, Worthington
 Mark Robert Grim, Columbus

Cara Marie Guanciale, Newark
 Veyssel Erdal Gülerarkin, Giresun, Turkey
 Ayman Abdel-Razik Hamed, Cairo, Egypt
 Lee Alan Hardesty, Huber Heights
 Catherine Mary Hayes, Raleigh, NC
 Arturo Gerardo Hernandez, Tiffin
 Thomas Michael Hess, Cincinnati
 James Brian Hilz, Toronto
 Robert Alan Hirsch, Brookville
 Richard Lyle Hitchcock, Fairborn
 Erick Allan Hobbs, Worthington
 Douglas Peter Holcomb, Columbus
 Jan Reed Hollern, Columbus
 Mary J. Homan, Dalton
 Donald L. Howard, Zanesville
 Scott Brian Hudson, Middletown
 Michael Steven Hunn, Mansfield
 Brenda Lynn Jacob, Delaware
 Vancho Janakievski, Columbus
 Robert Scott Jardine, Centerville
 Thomas William Jeffire, Findlay
 Robert Edward Johansen, Westerville
 Karen Elizabeth Johnson, Chagrin Falls
 Naomi Denise Johnson, Brewster
 Jody Steven Joly, Centerville
 Paula Raye Jones, Pataskala
 William David Just, Middleburg Heights
 Nicolas Loizou Kallinicou, Limassol, Cyprus
 Scott John Kaminski, Adena
 Joanne Kammerer, Dublin
 Timothy Arthur Kelly, West Chester
 John Miles Kerzman, Broadview Heights
 Theresa Marie Kiko, Minerva
 Jong Chun Kim, Seoul, Korea
 Daniel P. King, Columbus
 Karen Lee Kinley, Lexington
 William Joseph Kirwin, Columbus
 Scott A. Knabe, Cincinnati
 Pick Cheang Kok, Perak, West Malaysia
 James Francis Koper, Marysville
 Brenda L. Kornmiller, Columbus
 Robert Donald Kramer, Pickerington
 Douglas Alan Kraus, Aurora, IL
 Lee Lin Kwa, Melaka, Malaysia
 Jill Ann Lambert, Columbus
 Stephen F. Lambeth, Columbus
 Holly Louise Lawrence, Worthington
 Terrence Gregory Leach, Pickerington
 Byron Keith Lester, Grove City
 Anita Marie Likens, Worthington
 Paul Zhi Cheng Liu, Singapore
 Chai Sheong Loh, Kuala Lumpur, Malaysia
 Kevin Ross Lohr, Painesville
 Mark Antony Lombardi, Amherst
 James Andrew Looney, Whitehall
 Marisol del Rosario Lugo Juan, Aguadilla, PR
 Robert Samuel Macali, Niles
 Mikele Elaine Mahaffey, Washington, PA
 Brian John Majeska, Highland Heights
 Agnes Adama Mansaray-Dura, Makeni, Sierra Leone
 James Rudolph Marik, Garfield Heights
 John Arthur Mazor, Highland Heights
 Steven James McBeth, Elida
 Frank Ralston McCabe III, Aliquippa, PA
 Marty Lynn McClellan, Germantown

Cheryl Lynn McFarland, Columbus
 Mark William McLaughlin, Reynoldsburg
 Philip Bernard Meyer, Columbus
 Peter Alex Mihnovets, North Royalton
 Joseph Andrew Milligan, Mansfield
 Heide Sue Modlich, West Jefferson
 David Russell Moore, Alexandria
 Jeffrey Thomas Moss, Toledo
 Steve Michael Mullan, Columbus
 Anthony Todd Musarra, Pepper Pike
 Mark William Myer, Columbiana
 Andrea K. Nespor, Washington, DC
 Thomas Richard Newcomer, Mansfield
 Thanh-Lan Thi Nguyen, Lakewood
 Talli Nissimov, Chillicothe
 Carolyn Sue Noah, Smithville
 Steven Matthew Oliver, Westerville
 Jeffrey Joseph Ondich, North Olmsted
 Donald Paul Ostermeyer, Worthington
 David Scott Penkal, Eastlake
 Michael Albert Perrico, Concord
 John Henry Pfeiffer, Toledo
 Vincent John Pinzone, Solon
 Andrew Stephen Poderys, Sunbury
 Steve Whiting Pollock, Delaware
 Teresa Marie Pompili, Warren
 Christine Marie Poole, Athens
 Mark Allen Prass, Dayton
 Joseph Patrick Prendergast, Worthington
 Barbara Jean Price, Fostoria
 Adam Thomas Race, Euclid
 Stephen G. Rady III, Columbus
 Michael J. Rea, Chagrin Falls
 Debra Lynn Reiger, Dover
 Karen Marie Reinmann, Rocky River
 Anne Jeannette Reitz, Kettering
 Michelle Marie Remynse, Toledo
 Elizabeth Ann Rennie, Centerville
 Dale Philippa Richmond, Memphis, TN
 Jack Leighton Ries II, Newark
 Yehya M. Rifai, Grove City
 Michael Wayne Robertson, Parma Heights
 Leslie Anna Robinson, Radnor
 Darrolyn Jean Robison, Rudyard, MI
 Gregory Allen Rodoski, Reynoldsburg
 Philip Lee Rooney, Findlay
 Sharon Ann Ruble, Bridgeport
 David Elvin Ruckman II, Wadsworth
 Sherry Lynn Sargeant, Batavia
 Margaret Susan Schehr, Columbus
 Valerie Sue Schiefer, Powell
 Mark Alan Schmidt, Fremont
 Karen Lee Schmoll, Kettering
 Albert Frank Schuster, Mansfield
 Mark Jeffery Scott, Columbus
 Jeffrey Alan Scroggie, Greenfield
 Michele Suzanne Seide, Willoughby
 Daniel Joseph Shea, Columbus
 Andrea Helaine Sheets, Chesterland
 Laura Jean Shepard, Reynoldsburg
 Jeffrey Lee Shinaman, Skaneateles, NY
 Richard M. Shultz, Forest
 Kimberley Anne Shunk, Columbus
 Bryan Kendall Smith, Jacksonville, FL
 Ralph Kevin Smith, Canal Winchester
 Todd Joseph Smith, Lima
 Sungae Son, Cleveland
 Tod Powell Spornhauer, Brookville
 Sean A. Stanic, Canfield

Karen Lee Stasiewicz, Columbus
 Michael Lee Stead, Dresden
 Paul D. Striley, Fairfield
 Donna Lee Strout, Newark
 Mark Bradley Sutton, Circleville
 Christopher E. Swabby, Columbus
 Laura Ann Tegethoff, Columbus
 Ramona Diane Terry, Mascoutah, IL
 Glenn W. Thompson, Westerville
 Judy Diane Thornton, Forest Park
 David Alan Tien, Macedonia
 Karen Denise Tirpack, Beavercreek
 Kasimin Tjuatja, Medan, Indonesia
 Ted Joel Tobler, Cincinnati
 Su Tian Toh, Melaka, West Malaysia
 John Marshal Torok, Youngstown
 James Brian Tuffin, Shaker Heights
 Cindy S. Verity, Elyria
 Luis Ricardo Vigil de la Parra, Puebla, Mexico
 Joseph Charles Vinciguerra, Cleveland
 Kevin I. Vogel, Powell
 Lori Alicia Vogt, Upper Arlington
 Kevin Douglas Wade, Marysville
 David James Walker, Columbus
 Thomas Allen Ward II, Columbus
 Bradley Eugene Weisz, Edgerton
 Kellie Jo Weitz, Findlay
 Nancy Ellen Welch, Columbus
 Diana G. Wilcox, Mt. Gilead
 David Alan Wiseley, Hilliard
 Mark Nathan Wiseman, Wheeling, WV
 Tracey Anne Woodward, Worthington
 Nathan Earl Wright, St. Louisville
 Richard David Wurzelbacher, Cincinnati
 Peter M. Wynne, Columbus
 Molly Ann Yoakum, Delaware
 Jeffrey Thomas York, Akron
 Gregory Thomas Zakrajsek, Middleburg Heights

College of Education

Dean: Donald P. Anderson

Bachelor of Science in Education

Deborah Anne Adams, Columbus
 Lisa Dawn Baker, Centerburg
 Diane Marie Bannister, Westerville
 Brad Andrew Barboza, Galena
 Janet Mary Baughman, North Canton
 Robert Bowen Becher, Cuyahoga Falls
 Ann Fender Bixler, Columbus
 Lynnette Marie Blake, Belpre
 Karen Sue Flesher Brantley, Columbus
 Tricia S. Britton, Columbus
 Jeffrey Lee Brokaw, Bellville
 Elizabeth A. Carr, Ashland
 Shirley Ann Collura, Westerville
 Jean Ann Copley, New London
 Darryl Bartlett Craft, Miamisburg
 Shellie Renee Dawson, Coshocton
 Peggy Jo Deringer, Bellefontaine
 Christiane Gisela Dressler, Johnstown

Kerry Glenn Ducey, Ottawa
 Ellaura Mae Dundore, Bellevue
 Ellen Marie England, Lima
 Patricia Lynne Evans, Cuyahoga Falls
 Jeanette Lynn Faeth, Plymouth
 Jeanne Marie Felmy, Cuyahoga Falls
 Donald Brian Felumlee, Nashport
 Colleen Rose Finn, Elida
 Laura Lee Fischer, Columbus
 Melinda Kay Fleck, Reynoldsburg
 Katherine Michele Fritsch, New Albany
 Ronald Ray Gorby, Marion
 Marcee Jean Graymire, Elida
 Mark Lee Grissom, Fairborn
 Deborah L. Gronas, Lima
 Marvin Eugene Harlan, Mansfield
 Brian LaMar Harper, Marion
 Dorene Lyn Heineman, Zanesville
 Gregory Reese Hill, Indianapolis, IN
 Paul Wayne Hinkle, Fredericktown
 Laura Beth Hoffman, Fredericktown
 Michael Jay Huler, University Heights
 Marianne Wilk Jones, Newark
 John Fotios Kalagidis, Canton
 John Joseph Kaltenecker, Vermilion
 Mary-Jo Knott, Ottoville
 Amy Suzanne Kovacs, Grafton
 Eric Palmer Kumerow, Barrington, IL
 Elizabeth J. Lamb, Lima
 Perry J. Landin, Fort Jennings
 Anthony J. LaRosa, Grove City
 Nora Elizabeth-Ries Lewis, Upper Arlington
 John David Lydic, Elyria
 Anthony Dominic Maite, Columbus
 Brenda Gay Malone, Rock Camp
 Lori Ann Marshall, Columbus
 Karen Kay Martin, Russell Point
 Tracey Lee Maxwell, Huntsville
 Gleason Moore McBane, Columbus
 John William McCord, Columbus
 Pamela Kay Miles, Columbus
 Kindar Plymale Miller, Bucyrus
 Marjorie Louise Miller, Galion
 Maria Lynne Monnin, Olmsted Falls
 Robbi Lynnette Montgomery, Waverly
 Robert H. Morris II, Columbus
 Jerry Von Morrison, Jr., Dublin
 Lisa Jill Moses, Akron
 Paula Jean Muto, Warwick, RI
 Charmaine Nichols, Lima
 Colleen Ann O'Brien, Kettering
 Leslie Lee Anne O'Donnell, Columbus
 Richard Napier Olderman, West Salem
 Margaret Yvonne Orazen, Upper Arlington
 Janice B. Pardi, Columbus
 Barbara Jean Park, Mt. Vernon
 Christina Marie Powell, New Albany
 Dennis Wayne Powell, Mansfield
 James Brendan Powers, Parma Heights
 Nancy Lee Radebaugh, Westerville
 Anne Louise Randolph, Greenville
 Angela Marie Raver, Groveport
 Linda Lou Reamsnyder, Findlay
 Rinsford Allan Reinhard, Columbus
 Karen Ann Rekart, Lima
 Frederick Marshfield Ridder III, Eaton
 Kathy Jane Ritchie, Marion

Martha Louise Roof, Hudson
 Jill Karen Sadowsky, Lyndhurst
 Matthew John SanGregory, Tiffin
 Michael Ray Satterfield, Heath
 Renee Christine Schooley, Columbus
 Susan Kay Semer, Van Wert
 Lori Marie Severt, Westerville
 Suzanne Lee Shroyer, Troy
 Melanie Beth Shugert, Portsmouth
 Kathleen Ann Simpson, Conneaut
 Jerry D. Slone, Mt. Vernon
 Paula Sue Spainhower, Mansfield
 Amy Beth Spitzer, Mechanicsburg
 Christina Kay Stanley, West Chester
 Milton David Stewart, Heath
 Rick Swauger, Hilliard
 Lucinda Annette Tackett, Columbus
 Edward James Taggart, Akron
 Pamela Ann Taylor, Mansfield
 Richard Edward Teague, Columbus
 Bruce Douglas Thomas, Bucyrus
 Diane Lee Thurber, Maumee
 Jean Marie Tom, Millersport
 Sandra Leigh Tracy, Cleveland Heights
 Kay Marie Urban, Shaker Heights
 Stephanie Layne Vargo, Jewett
 Susan Jane Vega, Canton
 Carol Ann Vennekotter, Continental
 Michael Lee Volkert, Hicksville
 Terry Jo Webb, Columbus
 Stephanie Melissa Weber, Dayton
 Thomas Theodore Workman, New Lexington
 Jacqueline M. Worster, Westerville
 Linda Louise Wycoff, Mt. Vernon
 Monica Jean Yetzer, Shelby

Bachelor of Art Education and Bachelor of Music Education degrees are offered jointly by the College of the Arts and the College of Education. Candidates are listed under the College of the Arts.

College of Engineering

Dean: Donald D. Glower

Bachelor of Science in Aeronautical and Astronautical Engineering

Carolyn Jean Blakelock, Yellow Springs
 Charles Boutros Gebran, Columbus
 David Albert Klaasse, Chagrin Falls
 Christopher Alexander Leger, Columbus
 Michael James Machock, Elyria
 James Patrick Morgan, Akron
 Anna Kay Rambo, New Lexington
 George Luis Richardson, Rota Naval Base, Spain
 Frank David Riha, Solon
 Roy Brian Strachan, South Plainfield, NJ
 Russell Eugene Thibaut, Columbus
 Robert Michael Usher, Shaker Heights
 David Brian Webb, Waynesfield

Bachelor of Science in Agricultural Engineering

Janet Marie Leite, Toledo
Bart Wayne Ray, Carrollton

Bachelor of Science in Aviation

John David Crawley, Frostburg, MD
Christopher John Lenox, Doylestown
Christopher James Preston, Powell
Rodney John Yee, North Olmsted

Bachelor of Science in Ceramic Engineering

James Vincent Bothe, Jr., Columbus
Jeffrey Stuart Coutts, Urbana
Jeffrey Todd Knapp, Penfield
Tommy Joe Mills, Jr., Steubenville
Sheila R. Pandya, Salem

Bachelor of Science in Chemical Engineering

Louise Annette Seeley, Columbus

Bachelor of Science in Civil Engineering

Hasan Raafat Alkhayri, Amman, Jordan
Mark Allyn Ambuehl, Lancaster
Mark Weber Antonetz, Zanesville
Jeffrey L. Bateman, Moorestown, NJ
Mark Richard D'Andrea, Pearl River, NY
Douglas Robert Davis, Zanesville
Jerome Paul Fiore, Sagamore Hills
Keith Allan Furukawa, Parma
Ricky Monroe Hively, Columbus
Kathleen Anne Korterud, Columbus
Julia Ann Miller, Glenmont
Zawawi Samba Mohamed, Kedai Mulong, Malaysia
Michael Edward Murphy, Findlay
Rafic Moroun Nakouzi, Tabarja, Lebanon
Chee Wan Ong, Columbus
David Pearl Poling, West Mansfield
Andrea Jean Shannon, Columbus
Sonia Liza Shreffler, Groveport
Backus Joseph Wakim, Mizlara, Lebanon
Emanuel Whiteside, Jr., Columbus

Bachelor of Science in Computer and Information Science

Steven Michael Anderson, Columbus
Bradley Scott Arlen, Beachwood
Reza Barkhi, Shiraz, Iran
Steven Craig Chapman, Coshocton
Rohit Chawla, New Delhi, India
Robert Bryan Davis, Orient
Michael Allen Green, Cincinnati
Howard Daniel Hamilton, Cincinnati

Peter Joseph Hohlbein, Delphos
Kenneth Alan Howe, Columbus
Scott Herhold Huston, Akron
Julie Ann Lucas, Galena
James Franklin Marshall, Steubenville
Mary Beth Nelson, Columbus
Judith Lane Robinson, Plain City
George Michael Ruck, Worthington
Mark William Russell, Columbus
Brady Rodrick Rutherford, Carroll
Laurentius Darwin Senjaya, Jakarta, Indonesia
Allen Charles Skinn, Beavercreek
Richard Wayne Steele, St. Marys
Advait Vidyadhar Supanekar, Columbus
Seck Howe Toh, Singapore
Kevin John Wright, Whitehall

Bachelor of Science in Electrical Engineering

Himanshu Subhash Amin, Eastlake
Mohammad Arya Azadpour, Columbus
Ranjani Balasubramanian, Cleveland
William Edward Bartos, Richfield
Jonathan Charles Benya, Parma
Janice Dee Betts, Dayton
Jean Rena Brands, Defiance
William Robert Dirks, Cleveland
Clark Edward Fortney, Columbus
Peter Francis Garvin, Clyde
Heung Yeung Go, Hong Kong
Barry Dean Gross, Shelby
George Anthony Hadgis, Biddeford, ME
James Emmett Hartley, Columbus
Rodney Eugene Haven, Bangkok, Thailand
Philip Ka-on Ho, Hong Kong
Derek Keith Hoff, Perrysburg
Douglas Horn, Cincinnati
David Rhys Jones, Columbus
Mark A. Jones, Worthington
Mawaheb Zafer Kabbara, Tripoli, Lebanon
Kedar Pawan Kapoor, Hudson
Scott Wayne Kiesewetter, Piqua
James Weldon Lillard, Jr., Lexington, KY
Kieu Lam Nguyen, Columbus
Robert William Overberg, Columbus
Umesh Chandra Patel, Columbus
Vern Charles Peltomaa, Columbus
David Charles Reutter, Mt. Gilead
Timothy James Ruffner, Avon
Mae Elizabeth Ruhl, Columbus
Piyush Rajnikant Shah, Cincinnati
Vandana Srivastava, Columbus
Timothy Allen Stauffer, Ada
Todd Charles Tomba, Painesville
Eric Allen Whitehill, Fairborn
Dale Thomas Wolfe, Avon
Derek Jon Zacharias, Bellbrook

Bachelor of Science in Engineering Physics

Carolyn Jean Blakelock, Yellow Springs
Sharon Ann Morrow, Middlefield

Bachelor of Science in Industrial and Systems Engineering

David James Alben, Columbus
Paul David Baker, Columbus
Georges Elias Beaini, Tripoli, Lebanon
Jonathon Joseph Ceh, Amherst
Linda Susan Cooper, Shaker Heights
James Robert Corli, Canfield
Donavon John Favre, Columbus
Thomas Joseph Feldkamp, Jr., Mentor
Diana June Fisher, Revenna
James Arthur Fograscher, Westerville
Debra Ruth Foster, Carbondale, IL
James Edward Geesey, Bryan
Joseph Mark Grant, Shelby
Dirk Charles Greywitt, Strongsville
David Thomas Griffiths, Lexington
Harold Thomas Gruber, Columbus
Kenneth Joseph Gulick, Fairview Park
Charles David Hamilton, Hamilton
John Cox Hatfield, Woodcliff Lake, NJ
David Robert Hooper, Chillicothe
Joyce Stephanie Hudak, Campbell
Richard Ken Ishiyama, Parma
Altai Mohiuddin Jafari, Parma
Thomas Charles Jokerst, Galion
Kimberly Anne Kender, Niceville, FL
Edward Mark Knapper, Cincinnati
Samuel Raymond Kuper, Middletown
Barbara Jean Lantry-Miller, Columbus
William Lawrence Mondillo, Westerville
Brian Scott Pretorius, Dayton
Bassam Abdel Rast, Ashtabula
Allen Jeffery Riter, Youngstown
Hartono Santoso, Malang, Indonesia
Jonathan David Schatz, Dayton
Brian Paul Schindler, Chagrin Falls
James M. Seibert, Columbus
Charles Eugene Soule, Middletown
Todd Alan Stroh, Wadsworth
Krista Lynn Wentz, Kettering
John Charles Whieldon, Solon
Terrence Miles Zeller, Bethel Park, PA

Mechanical Engineer

Rick A. Smith, Shelby

Bachelor of Science in Mechanical Engineering

John Delmore Boyer, West Lafayette
James Yu-Ting Chen, Taipei, Taiwan, R.O.C.
David Robert Cordonnier, Fort Loramie
Donald Lee Cuthbert, Jr., Galloway
Richard William Dame, Madison
Nathaniel Robert Doersam, Columbus
Timothy Noel Dop, Worthington
John Joseph Drabczyk, Hudson
Patrick French, Delaware
James Gavin Howe, Columbus
Andrew Stephen Hughes, Dublin
Thomas Milton Ihrig, Port Washington, KY
Theresa Reilly Krystofik, Columbus

Charles Gaetano Muzio, Jr., Lorain
 Brent J. Richey, Defiance
 Carl Conrad Schultz III, Columbus
 Eric Louis Schumann, St. Marys
 Oather Taylor III, Freeport, IL
 Mark Joseph Uland, Circleville
 Mark Leo Ziolkowski, Pittsburgh, PA

Bachelor of Science in Metallurgical Engineering

Carl Emerson Biefeld, Newark
 James Paul Dykeman, Lyndhurst
 Mark David Gilliat, Kettering
 Barbara Ann Hannel, Springfield
 Mark Leroy Purtee, West Milton
 Syed Sohail Qamar, Karachi, Pakistan
 David Robert Tillett, Washington Court House

School of Architecture

Bachelor of Science in Architecture

Nabil Mohamed Abdel-Hamid, Cairo, Egypt
 Chaerani Affandi, Jakarta, Indonesia
 John Edward Harmon, Gahanna
 David George Rectenwald, Westlake

College of Home Economics

Dean: Lena Bailey

Bachelor of Science in Home Economics

Amber Lynnae Angel, Brecksville
 Cynthia K. Boden, Columbus
 Geraldine Marie Cain, Cincinnati
 Cassandra Rachelle Coles, Westerville
 Anne Louise Cunningham, Dayton
 Amy Larease Cupe, Columbus
 Stefanie Anne Dirienzo, White Plains, NY
 Laurie Lynne Dutton, Celina
 Karen L. Dziengelewski, Toledo
 Barbra Fox, Blacklick
 Gayle Anne Glenn, Columbus
 Amy Bidwell Hurd, Columbus
 Mary Catherine Johnson, Urbana
 Michelle Marie Karolak, Lorain
 Margaret Anne Lesko, Westlake
 Wendy Barbra Levine, Beachwood
 Linn Christine Lile, Ada
 Norma Sue Osborne, Columbus
 Sharon Marie Philipot, Paulding
 Rebecca Sue Powell, Gahanna
 Douglas DL Ridgway, Columbus
 Kelly Jo Ann Russo, Pickerington
 Jill Francis Samaritoni, Sylvania
 Paula Lynn Schweitzer, Vermilion
 Jennifer Beth Stanley, Cincinnati

Marjorie Anne Stevenson, Worthington
 Christine Ann Turnbull, Columbus
 Jonathan Robert Young, Kalamazoo, MI
 Mindy Beth Zucker, Beachwood

Bachelor of Science in Hospitality Management

Patricia N. Carpenter, Sandusky
 Ronald Edward Dorsey, Lorain
 Sandra Kay Osterloh, Columbus
 Robert John Porter, Kirtland
 Douglas P. Treichler, Barrington, RI

Bachelor of Science in Nutrition

Lori Ann Buroker, Kenton

College of Medicine

Dean: Manuel Tzagournis

School of Allied Medical Professions

Bachelor of Science in Allied Health Professions

Charles Thomas Baker, Jr., Greenhills
 Ann Elizabeth Bassitt, Lima
 Patricia Ann Burdinski, Bay Village
 Sherri Ann Buss, Mentor
 Linda Carol Chandler, Poland
 Shawn Patrice Cooper, Fairborn
 Eileen Marie D'Epiro, Fairborn
 Jeannie Lynne Emrick, Huntsville
 Kimberly Sue Eshleman, Union
 Carol Frances Ferguson, Bethel
 Kathleen Joann Fox, Columbus
 Maria Christine Galgas, Parma
 Kathleen Marie Geiss, West Chester
 Grace Gerwe, Baltimore, MD
 Diane Nancy Hart, Columbus
 Robin Leah Hartley, Cortland
 Wendy Ann Heinzman, Columbus
 Kristin Sue Herrnstein, Chillicothe
 Kathleen Ann Hicks, Norton
 Denara Lyn Howell, Shelby
 Paula Jean Hutchins-Moloney, Sidney
 Georgette Roberta Ireland, Parma
 Marsha R. Jacobson, Youngstown
 Dennis Mark Kirven, Chelmsford, MA
 Julie Marie Kline, Canton
 Janet Marie Koenig, St. Henry
 Donna Diann Koshiba, Granville
 Annette Marie Kraml, Bay Village
 Rose Mary Kruer, Waynesville
 Lisa Ann Landaker, Westerville
 Julia Anne Lanbee, Crestline
 Laura B. Linville, Delaware
 Dawn Rosemary Lonske, Whitehall

Anne Margaret Losekamp, Upper Arlington
 Beth Anne Ludwig, Columbus
 Sandra Lynn Luthe, Youngstown
 Patricia Helen Magee, Pittsburgh, PA
 Jill Arlene Mateleska, Huron
 Karen Louise McCormick, Canfield
 Jon Deric McKamey, Leesburg
 Laurie Sue Mearini, Jefferson
 Jeannette Renee Mercier, Worthington
 Terrence Joseph Morris, Columbus
 Kay Lynn Murrell, South Vienna
 Annette Therese O'Malley, Westlake
 Sonya Anne Owens, Toledo
 Theresa Rene Pantanella, Toledo
 Carol Ann Pesek, Independence
 Lisa Louise Ross, Denver, CO
 Patricia Anne Seymour, Powell
 Christine Shanks, Reynoldsburg
 Melinda Leigh Sine, Beavercreek
 Ardith Irene Stratton, Salem
 Karen Joan Taylor, Springdale
 Christine Tepley, Lakewood
 Teresa Ann Wasserstrom, Cuyahoga Falls
 Georgia Gay Williams, Columbus
 Rebecca Caroline Williams, Wheelersburg
 Janette Kaye Wurth, Kalida

Certificate of Post Baccalaureate Circulation Technologist

Ginger Jeannette Barker, Stow
 B.S.Agr.

Todd Neale Nord, Tiffin
 B.S. (Heidelberg College)
 Dale Lance Ruby, Cherry Hill, NJ
 B.S. (Oral Roberts University)

Certificate of Study in Occupational Therapy

Marla Faith Holtzman, Cincinnati
 B.S. (Ohio University)
 Carol Lynn Schreck, Cleveland
 A.B. (Youngstown State University)

College of Nursing

Dean: Carole A. Anderson

Bachelor of Science in Nursing

Michael Anthony Crippen, Hillsdale, MI
 Jane Ann Edwards, Columbus
 Jean Marie King, Mansfield
 Colette Yvonne Martin, Worthington
 Norma A. Schmanky, Worthington
 Kathleen Gail Watkins, Perrysburg
 Hyacinth D. Williams, Powell

College of Pharmacy

Dean: Albert H. Soloway

Bachelor of Science in Pharmacy

Sam A. Albeg, Columbus
Susan Renee Beardmore, Lewisville
Terrence P. Boylen, Cleveland
Brian Scot Carpenter, Columbus
Robert Anthony Fetty, Cortland
Patrick Mitchell Letwen, Cortland
Sue Ann Touse, Columbus
Christopher Michael Wendling, Columbus

College of Social Work

Dean: Richard E. Boettcher

Bachelor of Science in Social Work

Rebecca Lynn Austin, Pickerington

Graduates with Honors

Criteria for graduating with honors are as follows:

With Distinction requires successful completion of a Senior Honors Thesis, oral examination, and graduation in the top 25% of the class.

With Honors in the Liberal Arts requires successful completion of the Arts and Sciences Honors Contract and graduation in the top 25% of the class.

Cum Laude designates those graduating in the top 10% of the class.

Summa Cum Laude designates those graduating in the top 3% of the class.

With Distinction in Ancient History and Classics

Marianne Paula Urse

With Distinction in Parks and Recreation Administration

Andrew Gerard Baechle

With Distinction in Wildlife Management

Kimbra Lee Smith

With Honors in the Liberal Arts

Philip Daniel Morrison

Cum Laude

Christine Lucille Auten
Ann Elizabeth Bassitt
Jeffrey Alan Beachy
Ann Fender Bixler
Lynette Marie Blake
Rohit Chawla
Jean Ann Copley
Kimberly Ann Davies
Michelle M. Dietsch
Rebecca Lynn Dillon
Kenneth Marc Dolin
Sharon Rosalie Dragics
Richard Gordon Dunlop
Donald Brian Felumlee
Carol Frances Ferguson
Katherine Michele Fritsch
Peter Francis Garvin
Michele Yvette Geyer
Deborah L. Gronas
Dennis Mark Kirven
Amy Suzanne Kovacs
Richard John Kramer
Patricia Joan McLoughlin
Marjorie Louise Miller
Valerie Ann Murchake
Norma Sue Osborne
Christine Marie Poole
Barbara Jean Price
Stephen G. Rady III
Michael Wayne Robertson
Lisa Louise Ross
Julie McLoughlin Rutledge
Hartono Santoso
Mark Alan Schmidt
Karen Lee Schmoll
Robin Joyce Sekerak
James Trenton Snavley
Paul Edward Solomon
Amy Beth Spitzer
Karen Lee Stasiewicz
Marjorie Anne Stevenson
Patricia Kay Strickland
Julie Ann Thomas
Melissa Ann Tobias
Robert Michael Usher
John Charles Whieldon
Jerry L. Wilson
Brent Dale Ziegler

Cum Laude with Distinction in Agronomy

Miles Miller Zimmerly

Cum Laude with Distinction in Mechanical Engineering

James Yu-Ting Chen

Cum Laude with Distinction in Occupational Therapy

Teresa Ann Wasserstrom

Cum Laude with Distinction in Photography and Cinema

Jonathan Cupp

Cum Laude with Honors in the Liberal Arts

Thomas Monroe Bolon, Jr.

Summa Cum Laude

Tim Alan Adams
Kevin Lee Arsham
Shawn Patrice Cooper
James Joseph Davidson
Keith Aaron Ensign
Jeanette Lynn Faeth
Debra Ruth Foster
Mona Gazala
Daniel L. Gregory
Lori Groendyke-Knutti
Joan Angela Hargis
Denara Lyn Howell
Scott Herhold Huston
Elizabeth J. Lamb
Andrea K. Nespor
Janice B. Pardi
Cynthia Rayak
Leslie Anna Robinson
Darrolyn Jean Robison
Martha Louise Roof
Mae Elizabeth Ruhl
Karen Lee Schmoll
Piyush Rajnikant Shah
Alison D. Thomas
Justin Falgui Tugaoen
Carol Ann Vennekotter
Kevin I. Vogel
Michael David Young

Summa Cum Laude with Distinction in Medieval and Renaissance Studies

Joanne Alice Gerlachner

Summa Cum Laude with Honors in the Liberal Arts

Margaret Jane Armstrong
Michael David Young

Summa Cum Laude with Honors in the Liberal Arts and with Distinction in Psychology

Laura Ann Brannon

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THE OHIO STATE UNIVERSITY
OFFICIAL PROCEEDINGS OF THE
ONE THOUSAND TWO HUNDRED AND FORTIETH MEETING
OF THE BOARD OF TRUSTEES

Columbus, Ohio, April 7 and 8, 1988

The Board of Trustees met at its regular monthly meeting on Thursday, April 7, and Friday, April 8, 1988, at The Ohio State University Fawcett Center for Tomorrow, Columbus, Ohio, pursuant to adjournment.

* * *
Minutes of the last meeting were approved.
* * *

April 7 and 8, 1988 meeting, Board of Trustees

The Chairman, Mr. Redman, called the meeting of the Board of Trustees to order on April 7, 1988, at 6:30 p.m. He requested the Secretary to call the roll. The meeting recessed into Executive Session for the purpose of considering legal issues and personnel-related matters.

Present: Edmund C. Redman, Chairman, Leonard J. Immke, John W. Berry, Shirley D. Bowser, Hamilton J. Teaford, John J. Barone, Deborah E. Casto, and John W. Kessler.

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Mr. Redman reconvened the meeting on April 8, 1988, at 10:15 a.m.

Present: Edmund C. Redman, Chairman, Leonard J. Immke, John W. Berry, Shirley D. Bowser, Hamilton J. Teaford, John J. Barone, Deborah E. Casto, and John W. Kessler.

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Mr. Redman announced the appointment of the following persons to the Nominating Committee:

John W. Berry, Chairman
Shirley D. Bowser
Hamilton J. Teaford

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Mr. Redman:

Dr. James C. Garland, Chairperson of the Department of Physics, and two of his colleagues, will give a presentation on Materials Science.

Dr. Brand:

Mr. Chairman, may I take a moment to introduce them?

Mr. Redman:

Yes.

Dr. Brand:

Recently, the news media reported on major new discoveries in high temperature superconductors. Although these amazing new materials have drawn unusual public interest they also highlight, in a very dramatic way, how important new materials are in our modern society. Major advances in materials research in the past decade include, in addition to the discovery of high temperature superconductivity, the development of a new chemical process for producing novel ceramics and alloys, the miniaturization of electronic devices, the development of optical methods for data transmission, and the introduction of biomaterials relevant to a wide variety of modern applications.

Materials research is now emerging as a coherent field of research in itself. A vital combination of many traditional

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Dr. Brand: (contd)

disciplines ranging from solid-state physics and polymer chemistry to metallurgy and mechanical engineering. Work in this field combines the intellectual challenges of the most fundamental problems in mathematics, chemistry, physics, and many areas of engineering. This field encompasses the excitement of improving the quality of life for the 21st century. It is increasingly clear to many of us that research in materials is essential to the health of all U.S. industries, including those in the State of Ohio.

Today, I have asked three Ohio State faculty members to brief you on materials research here. These faculty members are playing a key role in our rapidly developing and expanding efforts in materials research. Professor James Garland is currently Chairperson of our Physics Department. He is an authority on superconductivity in composite materials. Jim is a former Director of the Ohio State Materials Research Laboratory and a former Acting Vice President of Research and Graduate Studies. Jim received his bachelor's degree from Princeton, his Ph.D. in experimental solid-state physics from Cornell, and has been at Ohio State for eighteen years.

Professor Dennis Readey is the Chairperson of the Department of Ceramic Engineering and is a nationally renowned expert on ceramic materials. Dennis joined Ohio State in 1977, as a full professor, and before that time he was senior scientist and manager of the Rathion Company. He has also been with the Department of Energy in Washington.

And, Dr. Arthur Epstein is both a Professor of Physics and a Professor of Chemistry. Art came to Ohio State in 1985 from Xerox. He is a leading researcher in new materials based on polymers and also on the new high temperature superconductors. Art did his undergraduate work at Brooklyn Poly Tech and received his master's and Ph.D. degrees in solid-state physics from the University of Pennsylvania.

Gentlemen, if you would --

Dr. James Garland:

Thank you. It is really a pleasure to come before you all and talk about this subject which is not only dear to my own heart, but that of many of my colleagues at the University, in several different colleges and many departments.

From the earliest days of civilization human beings have used materials made of various substances in order to provide themselves with a more hospitable environment. Because early man had only a very rudimentary understanding of matter, and of the laws that govern matter, they were pretty much stuck with using substances that occurred naturally in nature: wood, stone, earth, and later -- as we were able to refine materials into their basic elements -- iron, copper, gold, and some of the other elements. These materials were used to provide shelter, clothing, containers for food and water, tools, and weapons.

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Dr. Garland: (contd)

As society advanced people learned primarily through trial and error, to combine these natural substances together to make synthetic substances. These synthetic substances had properties that were better than the natural occurring. For example, the Romans had an early form of concrete, there are Japanese swords many hundreds of years old that are made of a form of tempered steel.

But the real advance came with the discovery that matter was made of atoms; that atoms were the basic building blocks of nature; that atoms could be formed together to make solids, liquids, and molecules; and that there were basic fundamental laws that guided the way atoms interacted with one another. This knowledge of the atomic nature of matter laid the groundwork for scientists and engineers to make enormous progress in the fabrication and application of materials.

Up to the 20th century, materials were used almost exclusively for structural purposes, and such considerations as strength, hardness, corrosion-resistance were the primary concern. In the 20th century, we discovered that we could exploit exotic materials for these electrical, magnetic, and thermal properties as well. While we have not lost site of their applications for structured purposes -- and I point to certain Teflon and various graphite deposits as examples -- we now use materials also for their electrical and electronic properties. For example, silicon, germanium, and gallium arsenide are all examples of materials which are used not because they can contain anything or support anything, but simply because they have desirable electrical properties.

Dr. Brand alluded to superconducting ceramics -- the so called high temperature superconductors that have very much caught the public fancy. That subject is a nice example of materials research at its most sophisticated. For example, let me show you a drawing -- this is a hand made transparency that was used at a Physics meeting last month -- of the crystal structure of one of the new high temperature superconductors. We have learned that these new superconductors are made up of crystals that are unbelievably tiny -- only a few atoms across. This drawing of various colored balls refers to different kinds of elements that go into making up this crystal. Notice how complicated the crystal is, how the atoms organize themselves into regular, repeating patterns. If we were to go into this crystal and pluck out that little green oxygen atom right there, superficially we haven't changed the material at all. It still looks the same, feels the same, weighs about the same, has the same texture, but it is no longer a superconductor. It is now an insulator, like an ordinary piece of glass.

In a sense, the development of this type of material is analogous to microsurgery, but instead of using scalpels to do the surgery we are using the tools of electron microscopes, fourier transform spectrometers, and molecular beam epitaxy machines -- ultra-sophisticated and ultra-expensive surgical tools.

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Dr. Garland: (contd)

Why do we make this kind of effort? The reason is that advanced materials are at the very foundation of a modern technological society. Here is an example from the space shuttle. The space shuttle is really the embodiment of modern materials research. Titanium alloys and graphite fiber composites are used for structural purposes, providing incredible strength with very light weight. The Challenger disaster was attributed to a failure of a material, the "O" rings in the booster rockets. Materials research is a part of the development of this kind of machine. Here I have listed some of the more exotic materials that are used in the electronics in the space shuttle -- the guidance mechanism, the control, the communication.

What do we mean by the phrase "materials research?" It's a little bit confusing, because the phrase embodies many different traditional academic specialties, crossing the boundaries between those specialties. Here is my flow chart that explains what materials research is in the context of Ohio State.

This green list shows some of the academic departments and some of the subspecialties within those departments where materials research is done. But the point I want to emphasize is that materials research, unlike most of the traditional research areas, really is a team effort. It requires scientists and engineers to work together, learning to speak a common language, and sharing their expertise. It is clear to me that all major universities have to make major initiatives into this general area if we are really going to contribute to the advancement of our civilization.

Now, I think next on the schedule is Dennis Readey, who is going to go into a little more detail about materials research -- what it is and how it fits into programs at Ohio State.

Professor Dennis Readey:

Thank you, Dr. Garland. As Jim pointed out, I am going to try and tell you a bit more about what constitutes Materials Research and Application and its importance at Ohio State and why it is particularly important at this time.

This definition of Materials Research and Applications shown in the overhead was developed by the National Academy of Sciences. The key here is that it is a "multidisciplinary" activity, as Jim pointed out, developed only during the last three decades. It deals with the generation and application of knowledge relating to the composition, the structure, and processing of materials to their properties and use. I can illustrate that by looking at the use of materials from the beginning of man on this Earth. The interesting thing is that we have described various periods of man's civilization by the materials that we have used. The Stone Age existed up to about 5,000 B.C.; the Bronze Age up to about 1,000 B.C.; at which time the Iron Age began. It lasted up to about 1900. I will define the Materials Age as starting about 1900 for the following reasons. In 1700 - 1800, different materials were being made by altering their compositions. It was

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Professor Readey: (contd)

not known exactly what was happening, but it was discovered that by changing compositions one could change the properties of materials. So the effect of composition on properties was becoming known during this period.

In the mid-1800's, the chemists began looking at the structure of molecules. So the concept of the effect of structure on properties started to become important. About 1863, metallurgists began looking at the structure of metals and rocks using microscopes -- examining the structure at a different level. So we had developed in about 1900, the ability to look at the structure at a microscopic-level and a compositional-level. Interestingly enough, this is when some of the various academic disciplines in materials got started. Metallurgical engineering began about 1850, and, of course, you all know that ceramic engineering, as an academic discipline, was started here in 1894 at Ohio State by General Orton, the son of the first President of the University. So Ohio State has been a leader in the materials field from its inception.

Right after the turn of the century, the discovery of x-rays and the ability to examine the structure of crystals occurred. Now the investigation of structure at the atomic level gave all the tools necessary to identify the structure materials and relate structure to properties. As a result, from then on, the structure/properties relationship for a wide variety of materials was developed. In 1947, the development of the transistor was probably the first major success in the field of materials research and applications. Since that time, has come the development of analytical instruments and computers, largely because of the development of the transistors, which now allow us to tailor materials such as metals, ceramics, polymers, electronic materials, and composites at the atomic level

How this is done is depicted in the next transparency. I have tried to describe here, in the form of tetrahedral arrangement, the interacting between the synthesis of materials characterizing those materials by determining their properties. And the one thing that allows us to do that better today than ever before is the wide range of analytical instruments that are now available. Likewise, the existence of computing capabilities such as the supercomputer facility here at Ohio State allows us to perform theory and modeling experiments at the atomic level. We can now design materials at the atomic level and determine if they really work the way the model predicts. Of course, that leads to application -- what we use materials for, what are the required properties for that material.

This next overhead shows the overall process for the development of a material having a given set of properties for a certain application. For example, we may want mechanical strength, or specific electrical, magnetic or optical properties. These in turn are determined by the structure. The chemical structure or composition, crystal structure, and the microscopic structure in turn are determined by the fabrication processes.

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Professor Readey: (contd)

The interaction between processing, structure, and properties of materials leads to this interdisciplinary approach. It requires people from many different academic disciplines to be involved in the development and processing of new materials. In this particular viewgraph, I have tried to illustrate this in terms of three concentric circles. The outer one being the directly applied field such as: engineering, leading to applied sciences, and finally basic sciences. This cross-hatched or the gray area is the area covered by Materials Research and Applications. You can see it covers chemistry, physics, mathematics, metallurgy, ceramics, polymers, and a number of departments in engineering. As Dr. Garland pointed out, these are all academic disciplines that we have here at Ohio State -- all parts of materials research in engineering. This is one of the advantages of a large multidisciplinary university such as Ohio State.

The application of new materials generated by materials research "enables" the development of new or the improvement of old technologies. Jim gave the example of the space shuttle, here is the example of optical communications -- fiberoptics. This viewgraph shows a single glass fiber. The major breakthrough here was attaining a purity of this glass purer than semiconductive materials. As a result, one can transmit optical signals over long distances. Optical signals can transmit much more information than normal electric signals. So this single fiber essentially replaces all these copper wires in communicating or transmitting the same amount of information.

Given the importance of materials in current applications, the future applications from materials are even more important. Here is an example of laser fusion. This is an instrument at the Lawrence Livermore Laboratory in California which is -- these are laser banks here -- using lasers to generate small thermonuclear explosions which generate energy by nuclear fusion. One of the key breakthroughs was the development of laser glass. This is a piece of laser glass in one of these lasers that was developed by Owens-Illinois in Toledo. Another future application that is going to depend very strongly on the development of improved materials is another area of energy generation, also nuclear fusion using so-called magnetic confinement techniques. This is a picture of a Tokomak reactor. In order for this fusion process to operate properly, you need magnets made of high temperature superconductors. And we know now, in the last year, high temperature ceramic superconductors are possible. However, much work has to be done now in developing these into useful materials to make devices such as nuclear fusion a possibility.

I will now turn the presentation over to Dr. Epstein, who will show you some examples of new materials.

Dr. Arthur Epstein:

Thank you, Dennis. We are focusing here today on materials and their development and their impact on society. I thought it might be useful to show you some examples of new materials. It is hard to bring an entire laser fusion facility in here or bring in a space shuttle, but we thought we would focus on two kinds of

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Dr. Epstein: (contd)

classes of materials -- ceramics and plastics or polymers. They are two of the many kinds of new materials that are being studied now that have impact and an understanding of science and the development of new technologies.

Specializing to ceramics and plastics, these materials are familiar to you, you have seen them before -- ceramics are the kinds of dishes you have at home, you drop them on the floor they break, they're brittle, these are the old fashion kinds of ceramics. Old fashion kinds of plastics are the old, cheap toys you had as a child, they would fall apart, they would melt very easily. An old plastic bag -- you went to a supermarket 15 years ago and they would give you a plastic bag with a carton of milk in it. You would shutter because you knew that carton of milk was going to break right through the plastic bag and be on the floor, spilling all over the place, all over your clothes, all over your car. You hated it -- you didn't want to see anything plastic.

Well, those are the old versions. They were brittle, they were weak, they did not conduct electricity, they were insulators. I brought along several examples to show you how in these two classes of materials things are changing very rapidly. We now have new compositions that are tough, they are strong, they can now have designed into them electrical or optical functions. You are welcome to come up here afterwards and look at these. If you look at the list, unbreakable dishes are new kinds of ceramics. I didn't bring any in you, all have them at home -- your Corell dinnerware, your unbreakable mugs. You know they are tough and you're not afraid to throw them at the radiator because they are not going to break.

As we go into higher technology -- this is an example of silicon carbide, the raw mineral. It is now possible to form this raw mineral into a turbo-charged rotor, such as this. And this turbo-charged rotor is now being tested in some Buick automobiles, I believe, as a turbo-charger. It has tremendous advantages over the normal metal turbo-chargers, because it is much lighter and therefore it can turn much more rapidly -- turn it on very quickly and get a fast start.

Moving over, this is an example of a zirconia scissor, which is made up of another kind of ceramic. It has an advantage in that it doesn't wear. I can be used to make cutting blades for a newspaper plant. It would cut the newspaper print and you wouldn't have to replace them very frequently at all. The Coors Company in Colorado, now makes a ceramic hammerhead as a demonstration to show their ability to control ceramics. They have handed these out to the carpenters in the Denver area as tests. I'm not quite sure how well the tests are going, but I guess you can always use it to open a can of Coors beer if you are really desperate.

Here is an example of a new kind of electrical function. I will put a little more liquid nitrogen -- liquid air -- into it. These other ceramics are very strong and tough, but they are

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Dr. Epstein: (contd)

insulators and they do not conduct electricity. More recently we are learning how to incorporate electrical or electronic functions into ceramics. That can be of great importance. Here we have an example of new high temperature superconductors. We call them high temperature because we did get them to be superconducting by using only liquid air, which is very cheap, very inexpensive and not difficult to control. You can see right now here in the room -- what we have is a small demonstration here of a magnet which can levitate on top of the superconductor. You are welcome to come up and take a look at that. You can see it sitting on top of the magnet.

Moving on from the ceramics to the other class of materials we are going to discuss -- plastics. Plastics, as I mentioned earlier, were these very weak materials, they aged in the sunlight and turned very brittle. Here is an example of a nonbrittle plastic. If we take an Ohio State bag, you can no longer tear it so easily. You can load it up with real heavy text books from Physics and Chemistry and Engineering and it doesn't break. It's because we have learned how to control the order of the atoms in a polymer for our plastics so they are very tough and very strong.

Another example of very tough and very strong is to use some epoxy plastic reinforced with fiberglass to make a spring. And this new light weight spring is going into Corvettes. It saves about 200 to 300 pounds in the weight of the car. It also does not rust. Both of these kinds of materials do not conduct electricity. You can now also design electrical functions into plastics. I have an example of a plastic called polyacetylene which can now be made almost as conducting as copper. In fact, it is more conducting than copper on a weight basis, depending on how much it weighs. It will have applications in things such as a space shuttle or an air craft, and possibly even light weight wiring in automobiles. You can take these plastics and you can form them into sheets and these sheets will have properties for example, of modulating optical signals or optical signal processing, or also for absorbing radar -- if you want to make something invisible to radar. If you drape a cloth over a tank -- you can drape a cloth of this type of material on it and you wouldn't be able to see the tank by radar.

The Japanese have taken some of these plastics and made rechargeable batteries out of them. This type of battery made of this plastic has a greater charge in it than nickel-cadmium batteries and doesn't have the toxicity problems of cadmium. Well, those examples are there for you to look at.

In the last year or two the major national societies have issued reports concerning the future of materials and materials research. Each of these major societies which are responsible for the broad administration of science and engineering in this country, the American Chemical Society, the American Physical Society, the National Academy of Sciences, the National Academy of Engineering, and the National Research Council have all concluded that it is essential to have a thrust in materials

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Dr. Epstein: (contd)

research in this country at this time. We are on the leading edge of new materials being developed and those materials affect us -- the consumer economy and also the high technology economy.

The importance of materials is indicated in the kinds of support that goes into their research and development. These are conservative numbers for the amount of money that is spent in doing research and development in the area of materials. I limit the numbers to only the kind of upstream research that one would do at a University, or at a basic research or applied research laboratory or company. The Federal government spends on the order of about \$2 - \$3 billion a year in research in materials. That number is easily ten times larger if you talk about engineering applications and prototype production -- those are much more expensive functions. For example, it would be \$30 billion if we included making new kinds of experimental aircrafts, even larger if we threw in the entire space plane type project. But this is a very conservative number of just actually the development of the new materials themselves, rather than the prototypes. Similarly, in industry at least \$10 billion a year is for the development of the materials. If we put in the numbers for the development of the prototypes, that number is ten times larger. There is a large investment in this area. That large investment is mimicked in other countries. The Ministry for International Trade and Industry has made materials a major priority in Japan, France, Germany, and most industrial countries at this time.

What are OSU activities? The departments involved are listed here. This is the same list that Jim Garland had, so I won't repeat them. They involve most of the departments in Engineering, as well as Applied Mathematics, Physics, and Chemistry. If we total it up, there are on the order of about 80 or 85 faculty that are currently involved, with about 200-300 graduate students. In consideration of the importance of materials at this time, the rapid advances and the thrust in other organizations in this direction, we need to move in the next year to enhancing this role, integrating it, and hiring new faculty to enhance this to bring in a greater range of activities and to make this an even stronger aspect.

Let me summarize our presentation then. Materials have a major role in the development of society. We saw how materials have been key in taking man from the Stone Age to the Bronze Age, to the Iron Age, to the Steel Age; and now to the Semiconductor Electronic Age, New Materials Age. We're now talking about fiberoptics, ceramics, polymers, and plastics. These ages are even described by the kinds of materials you use and those are rapidly changing.

Materials studies are highly interdisciplinary. It requires structuring a little bit differently in that it requires people to interact; to go between synthesis, processing, experiment, using new equipment, using theory, and using applications. Materials and their processes are leading to new technologies

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Dr. Epstein: (contd)

which are showing up both in the consumer market and in terms of high technology.

And, finally, what is going on is a major national and international thrust in materials at this time. It has been recognized that it is the underpinnings of new technologies, the underpinnings of exports, the underpinnings of society, in many ways, in that there is an increased investment in this area on a world-wide basis. And, finally, The Ohio State University has a substantial base in materials. It is among the ten leading institutions in terms of the production of graduate students, the kinds of research we do here, and our leadership position. But it is also important to build on that base, to invest in it, and to increase the number of faculty in order to move forward in that area. Thank you.

Dr. Brand:

Thank you, Gentlemen. It's clear that materials research is vitally important for our national competitiveness. I take it that it was noticed when Art indicated that Japan is making a tremendous investment in this area. It is not merely basic science research that is at issue, but also the development of these applications. We want to be able to enter into the new industries that are developing. It is good for our nation to develop in these areas, and it is very good for the State of Ohio. I think that the role of Ohio State, here, is especially important.

It is also noteworthy that everyone who spoke stressed that it is a team effort between two of our strongest colleges, Engineering and Math and Physical Sciences. We have a substantial competitive advantage on the national scene, because of the strength we have across many disciplines. Here is where the scale of Ohio State really works to our favor -- our ability to cross disciplines with strength. Opportunity is upon us now. We have strength now, but the field is changing rapidly. We are looking towards making a continued major effort in this area.

Let me leave you with one thought -- and that is the Sargent Preston of the Yukon principle for academic administration: "the scenery only changes for the lead dog." Thank you.

Mr. Redman:

Thank you, Dr. Brand.

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Mr. Redman:

Let us then have the committee reports from the Development Fund Board of Directors. Mr. Kessler --

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Mr. Kessler:

Thank you, Mr. Chairman. I would like to make a brief report on the Development Fund Board meeting on March 11.

Vice President Tobin updated the Board on the progress of the Campaign. As of February 29, 1988, Campaign receipts totaled \$265 million or 76 percent of the \$350 million Campaign goal. Mr. Tobin said all indications lead him to believe that by the end of this calendar year, more than \$300 million of the \$350 million Campaign goal will have been achieved.

The Board heard a report on planning for a Campaign mass appeal and discussed at great length the alumni survey to be used as a part of a possible mass appeal effort. They also heard a report on the Columbus Campaign which has raised \$116.9 million, or 87 percent of its \$135 million goal.

The next meeting of the Development Fund Board will be Monday, June 27, at the Fawcett Center.

Mr. Redman:

Thank you, Mr. Kessler. Are there any comments or questions? If not we will move to the Research Foundation Board of Directors, Mr. Barone --

Mr. Barone:

Thank you, Mr. Chairman. The Research Foundation met last in February for which I gave a report and a written report was entered. However, the contract between Children's Hospital and the Research Foundation was finalized at that time and Mr. Thompson gave a full report on the contents of that contract between Children's Hospital and the Research Foundation today. Our next meeting will be in June.

Mr. Redman:

O.K. Any comment? Thank you, Mr. Barone. We would like to hear from the University Hospitals Board.

Mrs. Bowser:

The Hospitals Board Executive Committee met in joint session with its Strategic Planning Committee on March 31. The members present received the Touche-Ross Management Letter and reviewed recommendations from the audit firm on improvements in the various systems. I think the University Trustees already received that letter in their packet of material. We reviewed the Administration's response to the recommendation and the Board asked for an update in September on the implementation of the changes. There were no major areas of loss or deficiencies.

The Strategic Planning updates were given by Dr. St. Pierre, Dr. Tzagournis, and Mr. Covert relative to the drafts of the College of Medicine and Hospitals portion of the Strategic Plan. Each

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Mrs. Bowser: (contd)

individual highlighted recommendations for change from their constituent groups.

It was pointed out that one area of concurrence still needing to be finalized among faculty is a consensus on Centers of Emphasis. Both the College of Medicine Executive Committee and the Strategic Planning Committee will meet to finalize recommended changes in the plan so that the total plan can be presented to the President in the next few weeks. And then the President will take the steps to present it to the Board of Trustees. Both the College of Medicine and the University Hospitals Board has been working on the strategic plan for some time and they are right down now to -- and I think Centers of Emphasis were finalized yesterday, as far as the College of Medicine was concerned.

Following the Strategic Planning session, a review of operating statistics and monthly analysis of financial performance took place. The Board was also briefed on the growth of the University Alternative Health Plan by representatives from Mr. Scott's office. The Plan represents approximately two percent of the Hospitals' total business. It was an excellent summary. Congratulations are in order for both Mr. Scott and Dr. Tzajournis in the development of this program and the meeting of service needs. To date over 9,000 employees participate in the University's PP0.

The Hospitals Board reviewed the medical staff's "Do Not Resuscitate" policy as well as guidelines for the termination of life support systems. This issue has been of major interest to the Board and I believe Dr. Mekhjian and the Medical Staff Administrative Committee are to be commended for the development of guidelines in this most sensitive area.

Lastly, the Board had an opportunity to visit briefly with Dr. David Schuller, the new Medical Director for the Cancer Hospital. He shared some of his thoughts as he approached this particular position, and we look forward to his leadership in the development of our total cancer program at The Ohio State University Hospitals.

That is my report.

Mr. Redman:

Thank you, Mrs. Bowser. I had a couple of questions. One with regard to the financial report, did we get that?

Mrs. Bowser:

The Hospitals portion of that?

Mr. Redman:

Hospitals.

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Mrs. Bowser:

I think we did when we met with the auditors last month.

Mr. Redman:

Can you, off the top of your head, tell me how our occupancy is?

Mrs. Bowser:

Well, I think, Mr. Covert --

Mr. Covert:

Our occupancy in terms of the open beds that we have at this point, Mr. Chairman, is 79 percent. Between 79 and 85, depending upon the day of the week.

Mr. Redman:

Are we going up or are we going down?

Mr. Covert:

No. In terms of admissions we are holding pretty much to what we expected this year. We, as you know, budgeted for approximately 28,650 or so admissions and we are ahead of that this year. We see ourselves being down in terms of our length of stay; where we had been at 8.2 days on the average, per patient stay now is someplace in the neighborhood of 7.7 to 7.9 days. So, our admissions are holding firm in Columbus and outside Columbus, but the length of time that people are in is shorter and that is what we are seeing nationally. That is pretty typical for hospitals not only in the area, but the country.

Mr. Redman:

Thank you. My second question, Mrs. Bowser, was about what I read in the newspaper about the helicopter. What is the latest withdrawal by one of our partners in that --

Mrs. Bowser:

Several of our partners, but Mr. Covert is our in-house authority on helicopters, let him --

Mr. Covert:

Approximately one month ago we had received an indication from St. Anthony's, I believe, that they were going to at least temporarily, if not permanently, pull out of the Consortium activity. They would continue to utilize the services of the sky and helicopter service specifically and would continue to contract to do that. Several weeks ago we received the same indication from Mt. Carmel. They would continue to contract and utilize the service, but as an investment in and of itself, they were not prepared to do that. Following that, we had a discussion with one hospital locally and several other groups

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Mr. Covert: (contd)

that are reshoving their interest in establishing a consortium. Cleveland and Cincinnati are also interested in being investors in that activity. It would be a consortium or network of helicopters and there are other hospitals that either own or operate helicopters services presently.

Mr. Redman:

Would that mean that they would participate in the operation at Ohio State or are you just going to ban together for administration?

Mr. Covert:

No, we would ban together at this point in some form of affiliation. We are looking at it from two standpoints -- from a financial standpoint, obviously, but at the same time from a care and a backup standpoint. You may not be aware of it, but at this time we do serve as backup for the University of Kentucky, as they also serve as backup for us. We also serve as a backup for Miami Valley, Dayton, and Cleveland Metro Life Flight out of Cleveland. We have had negotiations with the University of Cincinnati, as they are involved in their own helicopter service out there -- it's certainly a backup for each other. I anticipate that deal will be finalized.

Mr. Redman:

How are we doing on that financially?

Mr. Covert:

The helicopter service in and of itself is a loss at this point in time. That was expected to be the case. As you know, as we indicated, in terms of its direct operation, this would not be a money making --

Mr. Redman:

Well, we anticipated that when we entered the program, but the loss of our partners, I think, would bring into question whether the loss is beyond reasonable expectation.

Mr. Covert:

The additional loss, if that is the question you are asking, that will incur as a result of that is approximately \$500,000 to \$600,000 --

Mr. Redman:

A year?

Mr. Covert:

A year. The reason that I say that is that it really depends on the volume of flights. Our volume of flights has increased

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Mr. Covert: (contd)

tremendously. We had projected some 350 flights for the year. Within a little less than five months operation at this point, we are almost at 300 flights. We are now projecting, as we have revised our estimates as we go into the busy months of the year, that we may end up having over 600 flights. Now that can make a difference, obviously, in terms of revenues being generated that support the program directly. We will have more of a report for you probably in another month, as we complete our six month activity.

Mr. Redman:

In other words, you don't think this is an exercise in futility.

Mr. Covert:

No, Sir.

Mr. Kessler:

I have a question. If you have a consortium of financial partners, I assume that is a contract. How do they just drop out after they enter into it?

Mr. Covert:

Well, we -- obviously they decided at that point in time that they were willing to lose their investment that they had made up to that point. They will simply not belong any longer as an investor.

Mr. Kessler:

But, there is no penalty, there is no --

President Jennings:

They have lost their investment.

Mr. Covert:

They have lost their investment, the extended investment at that point in time.

Mr. Kessler:

And there is no money to pay back to either of those two institutions?

Mr. Covert:

That is correct.

Mr. Teaford:

Am I right that we are the only ones left?

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Mr. Covert:

That is correct. Technically, if you would call it, we are a consortium in terms of having affiliations, in terms of consortium of investors --

Mr. Kessler:

How much did they lose when they pulled out?

Mr. Covert:

I'll just give you my approximates at this point -- for each one, probably in the neighborhood of \$400,000 to \$600,000.

Mr. Redman:

That's for three.

Mr. Covert:

That is for each, that is correct. That is a conscious decision, obviously, that they made to continue or not --

Mr. Kessler:

That investment was to buy the helicopter or what?

Mr. Covert:

No, it was the investment that each hospital had to put in on the front end.

Mr. Kessler:

Where did that money go?

Mr. Covert:

O.K. That money is still there supporting the program, but they will not --

President Jennings:

It's a leased aircraft.

Mr. Covert:

The penalty is that they will not get any money back that they invested.

Mr. Kessler:

So they kissed-off that much money. Thank you.

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Mrs. Bowser:

And you can see their reason. They are faced with lots of cut-backs, too. And they can still use it, but they don't have to put the investment in.

Mr. Covert:

When we first went into it, OSU represented some 50% of the flights. After we got into it more, because we have a very extensive network external to Columbus, we represented over 80% of the flights.

Mr. Redman:

Any other questions, Mr. Kessler?

Mr. Kessler:

Thank you. That answers my question, Mr. Chairman.

Mr. Redman:

My last question is when -- do we have a target date for opening the Cancer Hospital?

Dr. Tzagournis:

December of 1988.

Mr. Redman:

And that would be on a partial basis, Dr. Tzagournis?

Dr. Tzagournis:

Yes. They will be phased in over approximately three months.

Mrs. Bowser:

The contractor is suppose to turn it over to the University in August and then the University has to do their thing.

Mr. Jackson:

I might add that I think the contractor's delivery date is optimistic.

Mrs. Bowser:

That is standard operating procedure.

Mr. Jackson:

I still think that the end of the year, as Dr. Tzagournis has said, is the appropriate time.

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Mr. Redman:

Thank you, Mrs. Bowser. Are there any other questions?

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APPROVAL OF DIVISIONAL STATUS

Resolution No. 88-103

Synopsis: A proposal to restructure the Speech and Hearing Science Section into the Division of Speech and Hearing Science is proposed.

WHEREAS the Council on Academic Affairs, the Dean of the College of Social and Behavioral Sciences, and the faculty of the Department of communication have approved divisional status for the Speech and Hearing Science Section of the Department of Communication; and

WHEREAS the Speech and Hearing Science Section meets the qualitative requirements for divisional status as specified in Rule 3335-5-34 of the Administrative Code; and

WHEREAS divisional status would formalize the current administrative and organizational procedures of the Speech and Hearing Science Section; and

WHEREAS divisional status would make Speech and Hearing Science more competitive in recruiting quality students, attracting and retaining faculty and grant monies; and

WHEREAS the proposed divisional status for the Speech and Hearing Science Section has been approved by the University Senate at its March 5, 1988 meeting:

NOW THEREFORE

BE IT RESOLVED, That the restructuring of the Speech and Hearing Science Section into the Division of Speech and Hearing Science is hereby approved.

Upon motion of Mr. Berry, seconded by Mr. Immke, the Board of Trustees adopted the foregoing resolution by unanimous voice vote.

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AMENDMENTS TO THE RULES OF THE UNIVERSITY FACULTY

Resolution No. 88-104

Synopsis: Amendments to rule 3335-47-01 are being proposed.

WHEREAS the University Senate pursuant to rule 3335-1-09 of the Administrative Code is authorized to recommend through the President to the Board of Trustees the adoption of amendments to the Rules of the University Faculty as approved by the University Senate; and

WHEREAS the proposed changes in the Rules of the University Faculty were approved by the University Senate on March 5, 1988, as follows:

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AMENDMENTS TO THE RULES OF THE UNIVERSITY FACULTY (contd)

AMENDED RULE

3335-47-01 General considerations.

- (A) The faculty is primarily responsible for initiating recommendations involving faculty appointments, reappointments, nonrenewal, and dismissal. The faculty also has a strong voice in the appointment and evaluation of department chairpersons, deans, and other academic administrative officers. Although the faculty plays a fundamental role in these matters, the final authority for the decision is lodged in the board of trustees or delegated by it to the president, the vice president for academic affairs and provost, or other academic administrative officer. The board or its delegate will give serious consideration to faculty peer recommendations. Faculty recommendations will be accepted unless they are not supported by the evidence presented regarding how the candidate meets published university criteria as set forth in faculty rule 3335-47-02 of the Administrative Code or unless the recommendations are unacceptable for other compelling reasons. When the decision of the board or its delegate departs from the faculty recommendation, the reasons for the departure will be communicated to the faculty group which made the recommendation.
- (B) Nominations for promotion and/or tenure originate in the department or appropriate academic unit in accordance with the procedures established by the unit. The recommendation must provide a comprehensive assessment of the candidate's qualifications, together with detailed evidence to support the nomination. It must also include information about the nature and extent of consultation on the matter within the academic unit and must present any significant evidence and differences of opinion which would support a contrary recommendation. Nominations will subsequently be considered by the college, and if favorable concurrence is obtained, the dean will forward the nomination, along with the dean's assessment and recommendation, to the vice president for academic affairs and provost. Recommendations are subject to the approval of the vice president for academic affairs and provost, the president, and the board of trustees.
- (C) No teacher attains tenure automatically. It may be acquired either in the original appointment to the regular faculty rank of professor, upon promotion from within the university to the rank of associate professor, or following a probationary period (as specified in rule 3335-47-09 of the Administrative Code). The granting of tenure requires the recommendation of the dean of the college after consultation with the chairperson of the applicable department, with the concurrence of the dean of the graduate school, the vice president for academic affairs and provost, the president, and the board of trustees.
- (D) When some of the nominations from a college involve the granting of tenure, the dean should provide a statement showing how the proposed actions will affect the long-range staffing pattern of the department and of the college, taking into consideration expected attrition, budgetary limitations, the need for flexibility, and the effect on that fraction of the faculty already tenured.

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AMENDMENTS TO THE RULES OF THE UNIVERSITY FACULTY (contd)

- (E) Recommendations for promotion and/or tenure should be based on the merit of the individual, on a consideration of comparable achievement in the faculty member's own field or in closely related fields and on the judicious use of the fiscal resources of the department and college. Whenever possible, consideration should be given to how the nominee stands in relation to other people in the same field outside of the university who might be considered alternative candidates for the position. All available evidence should be considered and it is the responsibility of the academic units to provide complete documentation.
- (F) In accordance with a policy of equality of opportunity, decisions concerning appointment, promotion, and tenure are based on the following criteria without discrimination as to race, creed, religion, national origin, age, sex, handicap, or Vietnam-era veteran status.

NOW THEREFORE

BE IT RESOLVED, That the foregoing amendments to the Rules of the University Faculty be adopted as recommended by the University Senate.

Upon motion of Mr. Barone, seconded by Mr. Immke, the Board of Trustees adopted the foregoing resolution by unanimous voice vote.

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AMENDMENTS TO THE UNIVERSITY HOSPITALS BOARD BYLAWS

Resolution No. 88-105

Synopsis: Amendments to rule 3335-101-07 of the University Hospitals Board Bylaws are proposed.

WHEREAS The Ohio State University Hospitals Board pursuant to Bylaw 3335-103-01 of the University Hospitals Board Bylaws is authorized to recommend to the Board of Trustees the adoption of amendments to the University Hospitals Board Bylaws; and

WHEREAS the proposed changes to the University Hospitals Board Bylaws were approved at the University Hospitals Board meeting on February 25, 1988, as follows:

AMENDED BYLAW

3335-101-07 Hospital clinical departments.

- (A) Appointment of the chief of each clinical department is subject to approval by the board on the recommendation of the dean of the applicable professional school and the vice president for health services. All such appointments shall be periodically reviewed by the board. Chiefs of clinical departments vacancies may be filled on an interim basis at any time by action of the dean of the appropriate professional college, after consulting with the board. (In general, the chiefs of clinical departments will be chairmen of

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AMENDMENTS TO THE UNIVERSITY HOSPITALS BOARD BYLAWS (contd)

corresponding academic departments in the medical college.)

- (B) The board may delegate, through approval of the medical staff bylaws or by appropriate board resolution, to the chiefs of the clinical departments responsibility for maintaining the quality of medical care in their services, and for recommending an applicant's appointment or reappointment to the medical staff of the hospitals and privileges for such an applicant.
- (C) The dean of the college of medicine serves as the chief medical officer and shall appoint a medical director who reports to the dean and to the board. In matters relating to medical care in the hospitals, members of the clinical departments of the hospitals are accountable to the clinical chiefs, who are accountable to the medical director, who is accountable to the dean and to the board. The dean in this capacity is accountable directly to the vice president for health services and to the board. If one individual holds both the dean and vice president position, the medical director will serve as the chief medical officer in the hospital.

NOW THEREFORE

BE IT RESOLVED, That the foregoing amendments to the University Hospitals Board Bylaws be adopted as recommended by the University Hospitals Board.

Upon motion of Mr. Barone, seconded by Mr. Berry, the Board of Trustees adopted the foregoing resolution by unanimous voice vote.

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PERSONNEL ACTIONS

Resolution No. 88-106

RESOLVED, That the personnel actions as recorded in the Personnel Budget Records of the University since the March 4, 1988 meeting of the Board, including the following Appointment of Chairpersons of Departments, Reappointment of Chairpersons of Departments, Leaves of Absence Without Salary, Professional Improvement Leaves--Change of Dates, and Emeritus Titles as detailed in the University Budget be approved, and the Medical Staff Appointments approved February 25, 1988, by the Hospitals Board be ratified.

Appointment of Chairpersons of Departments

April 1, 1988 through June 30, 1990

Veterinary Anatomy

James R. Blakeslee, Jr.

October 1, 1988 through September 30, 1992

East Asian Languages and Literatures

Shigeru Miyagawa

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PERSONNEL ACTIONS (contd)

Reappointment of Chairpersons of Departments

July 1, 1988 through June 30, 1990

Agricultural Economics and Rural Sociology Joseph Havlicek, Jr.

July 1, 1988 through June 30, 1992

Plant Pathology Charles R. Curtis

August 1, 1988 through June 30, 1992

Dairy Science David L. Zartman

Leaves of Absence Without Salary

JOSEPH W. RICH, Professor, Department of Mechanical Engineering, effective Spring Quarter 1988, to serve as a senior Fulbright Fellow at Ecole Centrale des Arts et Manufactures in Paris.

ANTTI J. NIEMI, Assistant Professor, Department of Physics, effective Spring Quarter 1988, to visit CERN (a joint European research institution in high energy physics), in Switzerland.

Professional Improvement Leaves--Change of Dates

NATHAN S. FECHHEIMER, Professor, Department of Poultry Science, change leave from March 28, 1988, through August 31, 1988, to March 15, 1988, through September 15, 1988.

LINDA JAMES MYERS, Associate Professor, Department of Black Studies, change leave from Autumn Quarter 1988, Winter Quarter and Spring Quarter 1989, to Autumn Quarter 1988 and Winter Quarter 1989.

Emeritus Titles

J. CARROLL NOTESTINE, University Systems, with the title Assistant Vice President Emeritus, effective May 1, 1988.

LAWRENCE J. R. HERSON, Department of Political Science, with the title Professor Emeritus, effective April 1, 1988.

GEORGE P. WILSON, Department of Veterinary Clinical Sciences, with the title Professor Emeritus, effective April 1, 1988.

MAYNARD G. MUNTZING, Cooperative Extension Service, with the title Associate Professor Emeritus, effective April 1, 1988.

Upon motion of Mr. Immke, seconded by Mr. Barone, the Board of Trustees adopted the foregoing resolution by unanimous roll call vote.

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RESOLUTIONS IN MEMORIAM

Resolution No. 88-107

Synopsis: Resolutions honoring the service of six of the University's faculty members who have recently died are being proposed.

RESOLVED, That the Board adopt the following Resolutions in Memoriam and that the President be requested to convey a copy to the families of the deceased.

Raymond E. Cray

The Board of Trustees of The Ohio State University expresses its sorrow upon the death on February 6, 1988, of Raymond E. Cray, Professor Emeritus in the Department of Poultry Science.

Professor Cray was born on August 13, 1900, in Stockton, New Jersey, and lived during his early years on the family poultry farm. He received the B.S. in Agriculture degree from Rutgers University in 1922. Following graduation, he was employed by the New Jersey Agricultural College as an assistant poultry extension specialist until 1924 when he was appointed as a poultry extension specialist at The Ohio State University. During the period from 1924 to 1942, Professor Cray fostered the formation, organization and development of cooperative egg marketing programs in Ohio that provided market outlets for many of Ohio's egg producers. He was also involved in projects that led to the formation of The Ohio Poultry Improvement Association to control disease and provide a basis for using genetics in the selective breeding of poultry. He also received a M.S. degree from The Ohio State University in 1930.

From 1942 to 1949, Mr. Cray was employed by the Ralston Purina Company to establish egg marketing programs in several other states. Parallel work was undertaken for marketing programs in broiler and duck growing. In 1949, he returned to The Ohio State University to teach and conduct research in poultry marketing.

Professor Cray published a variety of extension, industry and scientific articles on poultry, egg and meat marketing. From 1957 to 1963, Professor Cray served with The Ohio State University's Agency for International Development Project at the Punjam Agricultural University in India to establish and upgrade poultry science activities at this institution. He returned to The Ohio State University in 1963 in an administrative capacity for the Agency for International Development Programs in Brazil and India. Professor Cray retired in 1966 and was named Professor Emeritus.

Professor Cray was a member of The Poultry Science Association, American Agricultural Economics Association, American Marketing Association, OSU Faculty Club, Alpha Zeta, Gamma Sigma Delta, AAUP, and Kappa Sigma.

On behalf of the University, the Board of Trustees expresses to the family its deep sympathy. It was directed that this resolution be inscribed upon the minutes of the Board of Trustees and that a copy be tendered to the family as an expression of the Board's heartfelt sympathy.

April 7 and 8, 1988 meeting, Board of Trustees

RESOLUTIONS IN MEMORIAM (contd)

R. Frank Donley

The Board of Trustees of The Ohio State University expresses its sorrow upon the death on February 3, 1988, of R. Frank Donley, Instructor Emeritus in the Department of Obstetrics and Gynecology.

Dr. Frank Donley was born in August 1910, in Columbus, Ohio, and practiced medicine for many years in this city. He was one of Columbus' most distinguished obstetricians, and taught several generations of obstetricians and gynecologists. He did his pre-med education at the University of Dayton and the University of Cincinnati, graduating from medical school in 1935. Following that he was an intern at St. Elizabeth Hospital in Dayton (1934-35), a resident in obstetrics and gynecology at St. Ann's Hospital in Cleveland (1935-36), and at Mt. Carmel in Columbus (1936-37). He was a dedicated teacher, and taught for 12 years at the Mt. Carmel School of Nursing. He was a member of the American College of Obstetrics and Gynecology, and prior to 20 years of military service, practiced general medicine for three years. Dr. Donley gave more than 20 years of his life to The Ohio State University as a clinical instructor, and for the past 10 years was a dedicated part-time instructor in the Department of Obstetrics and Gynecology. He taught many residents and medical students during this period of time, and was considered one of the deans of obstetrics in this city. Upon his retirement in 1981, he was named Instructor Emeritus.

We have great appreciation and admiration for this man who was a gentleman, a scholar and a master clinician. He will be remembered for the contributions and the unselfishness that he gave of himself during his lifetime to the practice of exemplary health care for women in Columbus, Ohio.

On behalf of the university community, the Board of Trustees and the Department of Obstetrics and Gynecology expresses to the family its deep sympathy. It was directed that this resolution be inscribed upon the minutes of the Board of Trustees and that a copy be tendered to the family as an expression of the Board's heartfelt sympathy.

Mars G. Fontana

The Board of Trustees of The Ohio State University expresses its sorrow upon the death on February 29, 1988, of Mars G. Fontana, Professor Emeritus in the Department of Metallurgical Engineering.

Dr. Fontana received his B.S. in 1931 from the University of Michigan and then continued graduate study there in Chemical Engineering. In 1934, after completing his doctoral research, he accepted a position at the DuPont Company in Wilmington, Delaware. For the next 53 years, Mars Fontana gave his productive mind, body, and spirit to the advancement of the science and engineering of materials developments and the prevention of corrosion and material failures in engineering systems. The first nine of those years were spent at DuPont; the next thirty at The Ohio State University; and the last fourteen as a senior adviser, writer, and lecturer.

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RESOLUTIONS IN MEMORIAM (contd)

Mars G. Fontana (contd)

Mars Fontana carefully studied the mechanisms of the interactions of water, harsh chemicals, and stresses on metallic alloys. At DuPont, his science and engineering talents merged as he framed the mechanisms of corrosive attack and designed alloys, inhibitors, coatings, and electrolytic protection systems to prevent failures in production plant systems. These efforts led to his famous definition of "The Eight Forms of Corrosion." At The Ohio State University, he created a Corrosion Research Center and organized and led the Department of Metallurgical Engineering that put Ohio State in the forefront of materials research and corrosion science. Dr. Fontana is widely recognized as the "Father of Modern Corrosion Science and Engineering."

In his role as Department Chairman, he recruited and nurtured young faculty members, he led efforts to obtain funds for new laboratories, and he took an active part in the administration of the College of Engineering and in the faculty governance of the University. In the latter regard, he served as a member of the Faculty Council and as an effective senior faculty adviser during many University crises. By the time of his retirement in 1975, he had presented most of the important international lectures in his field and he had been named a Regents' Professor; a member of the National Academy of Engineering; a Fellow of all of the technical societies in his field; and had been named Professor Emeritus.

In 1981, the Board of Trustees officially renamed the building that he had worked so hard to create the, "Mars G. Fontana Laboratories." Other responsibilities and honors fell on him over the years. He was particularly proud of his honorary doctorate from Michigan and his honorary membership in the American Society for Metals. Just two years ago, he was the first recipient of the Outstanding Educator Award of The Metallurgical Society of AIME.

Mars Fontana, the teacher, changed the lives of all the students in his classes. He emphasized good analysis, clear and concise presentations, and simplicity wherever possible. In his consulting work and later industrial leadership as a director at Worthington Industries, he was famous for his ability to find the key to a complex problem, to identify the critical concerns, and to propose practical and successful courses of action. He passed that on to his students during his entire teaching career. His book, Corrosion Engineering, used throughout the world as the definitive engineering textbook on corrosion, emphasizes clear thinking and conciseness.

In Mars Fontana's life, responding to a sophomore student with a question was just as important as meeting a visiting dignitary. He was always open to questions and new ideas. He was very accessible and available to young people. He treated everyone with respect. He was generous with his own funds in many ways. Quietly he helped students and friends over rough spots. His generosity, along with that of his colleagues, friends and family, led to the endowment of the Mars G. Fontana Professorship. Earlier, a scholarship fund was created in his name.

The Department of Metallurgical Engineering and the Fontana Corrosion Center at The Ohio State University, its faculty, and its students are

April 7 and 8, 1988 meeting, Board of Trustees

RESOLUTIONS IN MEMORIAM (contd)

Mars G. Fontana (contd)

deeply indebted to his creative efforts. All of the companies for whom he consulted and the men and women who run them were enriched by the advice of Mars Fontana. The quality of public higher education is better because of his dedication to the pursuit of excellence in teaching, research, and public service.

On behalf of the University, the Board of Trustees wishes to express its deep sympathy to Mars Fontana's wife, Betty, and his children Martha, Mary, Elizabeth, David, and Thomas and their spouses, his beloved grandchildren, and his brother and sister. It was directed that this resolution be inscribed upon the minutes of the Board of Trustees and that a copy be tendered to the family as an expression of the Board's heartfelt sympathy.

Gerald H. Goedde

The Board of Trustees of The Ohio State University expresses its sorrow upon the death on January 1, 1988, of Gerald H. Goedde, Instructor Emeritus in the Cooperative Extension Service.

Mr. Goedde was born on April 5, 1923, in Ottawa, Ohio. He received his B.S. in Dairy Science from The Ohio State University in 1950; then spent two years as Farm Manager in Lapeer, Michigan; two years as Fieldman for The Nestle Company, Marysville, Ohio; and eleven years as Field Supervisor and Technician for Central Ohio Breeding Association in Columbus, Ohio.

Mr. Goedde began his Extension experience when he joined the faculty at The Ohio State University in 1965 as a County Extension Agent, 4-H in Miami County. In 1970, he became the Country Agricultural Agent in Miami County and continued in this position until his retirement in 1985. Upon his retirement, he was named Instructor Emeritus. Mr. Goedde was respected by his peers and associates throughout the State as he worked to provide excellent Extension educational programs for the citizens in his county.

On behalf of the University community, the Board of Trustees expresses its sympathy and understanding to the family of Mr. Goedde. It was directed that this resolution be inscribed upon the minutes of the Board of Trustees and that a copy be tendered to the family as an expression of the Board's heartfelt sympathy.

Richard A. Popham

The Board of Trustees of The Ohio State University expresses its sorrow upon the death on February 3, 1988, of Richard A. Popham, Professor Emeritus in the Department of Botany.

Richard A. Popham was born September 29, 1913, in Charleston, Illinois. He received a bachelor's degree from Eastern Illinois University in 1936, a master's degree from The Ohio State University in 1937, and a doctorate from The Ohio State University in 1940. He retired in 1980, after

April 7 and 8, 1988 meeting, Board of Trustees

RESOLUTIONS IN MEMORIAM (contd)

Richard A. Popham (contd)

serving on the faculty since 1940. He was on leave for four years during World War II on civilian service. Returning to The Ohio State University in 1946 as Assistant Professor, he became Associate Professor in 1950, and full Professor in 1968. In 1982, he was given the title Professor Emeritus.

Professor Popham specialized in the study of developmental plant anatomy. His teaching induced him to write two texts for plant anatomy students: Developmental Plant Anatomy (1952) and Laboratory Manual For Plant Anatomy (1966). He taught the beginning botany course every year, and supervised that course from 1965 to 1969.

Richard Popham's research, which resulted in over 40 papers published in scientific journals, was mainly concerned with plant growth and the factors affecting plant development. He served as a consultant to the Battelle Memorial Institute (1958-1969), and as Research Collaborator for the Brookhaven National Laboratory (1964-1980). He directed 9 students through their masters degrees, and 4 students through their doctorates.

Richard A. Popham was strongly committed to service. He was a member and long-time treasurer (1937-1980) of the Ohio State Chapter of Gamma Alpha Graduate Fraternity, which he also served as national treasurer and president. He served Ohio State and its students on the Ohio Staters (1956-1969; 1976-1980). In 1962, he was made a faculty member of the student Sphinx Honorary Society, and in 1966 he received the Alfred J. Wright Student Leaders Award for guidance and counsel of students. He belonged to numerous professional societies, and was particularly active in two. In the Ohio Academy of Science, he served for many years on its Council, was the Business Manager of its Journal (1949-1963), and was its President (1965-1966). In the Botanical Society of America, he was the Business Manager of its journal, the American Journal of Botany (1972-1981).

Many honors came to Richard A. Popham. He was elected Fellow of the American Association for the Advancement of Science (1940) and the Ohio Academy of Science (1944). He was elected a member of a number of honorary societies: Kappa Delta Pi (education); Phi Epsilon Phi (botany); Gamma Sigma Delta (agriculture); and the Society of the Sigma Xi (scientific research). In 1982, he was awarded the Certificate of Merit of the Botanical Society of America, given to only a few botanists for outstanding contributions to their profession. Richard Allen Popham will be remembered as an outstanding teacher and scientists who was fully dedicated to excellence in both.

On behalf of the University, the Board of Trustees expresses its deep sympathy. It was directed that this resolution be inscribed upon the minutes of the Board of Trustees and that a copy be tendered to the estate of Richard A. Popham as an expression of the Board's heartfelt sympathy.

April 7 and 8, 1988 meeting, Board of Trustees

RESOLUTIONS IN MEMORIAM (contd)

Ted R. Robinson

The Board of Trustees of The Ohio State University expresses its sorrow upon the death on January 25, 1988, of Ted R. Robinson, Associate Vice President Emeritus, Regional Campuses - Administration.

Born on July 4, 1930, Dr. Robinson was a graduate of Iowa State University where he received the M.S. degree in 1959 and the Ph.D. degree in 1964. He served as the Assistant Dean of Students at Iowa State University from 1958-1964. Dr. Robinson was appointed as Associate Director of Admissions at The Ohio State University in 1964, and was named Director of Admissions in 1966. In 1968, he was appointed Associate Professor with tenure, Agricultural Education. He served as Vice President for Student Affairs from 1970-1973. In 1973, he became Assistant Vice President for Regional Campuses and from 1983-1985 he served as Associate Vice President for Academic Affairs (Regional Campuses). In 1985, he retired from the University as Associate Vice President Emeritus, Regional Campuses - Administration.

He served as the corporate representative from Ohio for the American College Testing Program from 1978-85 and was a member of the Board of Trustees of the American College Testing Program from 1984-87. He was president-elect of The Ohio State University Retirees Association.

On behalf of the University, the Board of Trustees expresses to the family its deep sympathy and sense of understanding in their loss. It was directed that this resolution be inscribed upon the minutes of the Board of Trustees and that a copy be tendered to the family as an expression of the Board's heartfelt sympathy.

Upon motion of Mr. Immke, seconded by Mr. Barone, the Board of Trustees adopted the foregoing resolution by unanimous voice vote.

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REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS

Resolution No. 88-108

Synopsis: The reports on contracts, grants, and gifts and the summary for February 1988 are presented for Board acceptance.

WHEREAS monies are solicited and received on behalf of the University from governmental, industrial, other agencies, alumni, and various individuals in support of research, instructional activities, and service; and

WHEREAS such gifts and grants are received through The Ohio State University Research Foundation, the Engineering Experiment Station of The Ohio State University, and The Ohio State University Development Fund:

NOW THEREFORE

BE IT RESOLVED, That the research agreement between The Ohio State University and The Ohio State University Research Foundation for the

April 7 and 8, 1988 meeting, Board of Trustees

REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)

contracts and grants reported herein, and the acceptance of the reports from the Engineering Experiment Station and The Ohio State University Development Fund during the month of February 1988 be approved.

Upon motion of Mr. Kessler, seconded by Mr. Barone, the Board of Trustees adopted the foregoing resolution by unanimous voice vote.

SUMMARY FOR FEBRUARY 1988

Source	No. of Projects	Support Level
The Ohio State University Research Foundation	91	\$5,091,013.50
Engineering Experiment Station	53	\$ 195,970.00
Total	144	\$5,286,983.50

The Ohio State University Development Fund

Establishment of Named Funds

The Abba G. Lichtenstein Fund in Civil Engineering (Enhance the educational and research interests)	\$ 80,000.00
The Farm Income Enhancement Program Fund (Create an endowed chair in the Department of Agricultural Economics and Rural Sociology)	\$ 60,000.00
The Robert J. Kane Lecture Fund in English Studies (Fund an annual lecture)	\$ 42,839.00
Gertrude Kuehefuhs Piano Accompanists Endowment Fund (Scholarships, assistantships or grants - School of Music)	\$ 32,000.00
The Dairy Science Chair in Lactational Physiology and Mammary Health (Provide salary and program support of a distinguished teacher and scholar)	\$ 25,000.00
The Ohio State University Staff Career Development Fund (Provide staff members with grants for education, training and professional development)	\$ 15,000.00
The Stark County Alumni Scholars Program (Scholarships)	\$ 15,000.00
The Paul G. Korn and Gary B. Korn Scholarship Fund (Scholarships - food technology)	\$ 10,000.00

April 7 and 8, 1988 meeting, Board of Trustees

REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)

SUMMARY FOR FEBRUARY 1988 (contd)

The Ohio State University Development Fund (contd)

Change of Name and Description of Named Funds

From: Department of Family Resource Management Endowment Fund
To: The Jean S. Bowers/Fern E. Hunt Fellowship Fund

From: Mervin G. Smith International Scholarship Fund in
Agriculture
To: Mervin G. Smith Student and Faculty Fund in International
Agriculture

Change in Description of Named Fund

The Admissions and Allocations Fund

April 7 and 8, 1988 meeting, Board of Trustees

REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)

THE OHIO STATE UNIVERSITY RESEARCH FOUNDATION

Report - February 1988

Federal Research Contracts/Grants

\$458,600.00 - Department of Energy, Argonne, Illinois, High Energy Physics, Department of Physics (High Energy Physics Group: S. Durkin, H. P. Kagan, R. D. Kass, K. D. Lane, T. Y. Ling, A. J. Niemi, W. F. Palmer, S. S. Pinsky, N. W. Reay, K. Reibel, T. A. Romanowski, J. Shigemitsu, R. A. Sidwell, N. R. Stanton, G. Steigman, K. Tanaka, and W. W. Wada), 1 January 1988 through 30 April 1988. (Project 762116 - Continuation)

\$277,044.00 - Department of Health and Human Services, Public Health Service, National Institutes of Health, Bethesda, Maryland, Biochemistry of Natural Products, Biotechnology Programs (P. E. Kolattukudy), 1 April 1988 through 31 December 1988. (Project 766224 - Continuation)

\$265,916.00 - National Science Foundation, Washington, D.C., Mathematics and Science Teachers -- Training for Leadership, Department of Mathematics (A. E. Ross and G. Woods), 1 January 1988 through 30 September 1989. (Project 766580 - New)

\$134,109.00 - Department of Health and Human Services, Public Health Service, National Institutes of Health, Bethesda, Maryland, Neuro-modulators in Cerebellar Circuitry, Department of Anatomy (G. A. Bishop), 1 March 1988 through 28 February 1989. (Project 763013 - Continuation)

\$131,320.00 - Department of Health and Human Services, Public Health Service, National Institutes of Health, Bethesda, Maryland, Genetic and Molecular Studies of RNA Splicing, Department of Molecular Genetics (P. S. Perlman), 1 March 1988 through 30 November 1988. (Project 763452 - Continuation)

\$122,773.00 - Department of Health and Human Services, Public Health Service, National Institutes of Health, Bethesda, Maryland, Site Specific Modification of Human Cellular DNA, Department of Physiological Chemistry and Comprehensive Cancer Center (G. E. Milo), 31 January 1988 through 30 January 1989. (Project 765728 - Continuation)

\$122,072.00 - Department of Health and Human Services, Public Health Service, National Institutes of Health, Bethesda, Maryland, Interaction of DNA Topoisomerases with Chromatin, Department of Molecular Genetics (M. T. Muller), 1 April 1988 through 31 December 1988. (Project 763392 - Continuation)

\$121,837.00 - Department of Health and Human Services, Public Health Service, National Institutes of Health, Bethesda, Maryland, Hypo-cholesterolemic Agents: Stereochemical Studies, College of Pharmacy (D. T. Witiak and D. R. Feller) and Department of Pathology (H. A. I. Newman), 1 December 1987 through 30 November 1988. (Project 764517 - Continuation)

\$117,626.00 - Department of Health and Human Services, Public Health Service, National Institutes of Health, Bethesda, Maryland, A 60 Kilodalton (Kd) Oncofetal Protein Associated with Carcinogenesis,

April 7 and 8, 1988 meeting, Board of Trustees

REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)

THE OHIO STATE UNIVERSITY RESEARCH FOUNDATION (contd)

Federal Research Contracts/Grants (contd)

Department of Physiological Chemistry (T. E. Webb), 1 February 1988 through 31 January 1989. (Project 765588 - Continuation)

\$111,925.00 - Department of Health and Human Services, Public Health Service, Health Resources and Services Administration, Rockville, Maryland, Health Careers Opportunity Program, School of Allied Medical Professions (S. L. Wilson), 1 September 1988 through 31 August 1989. (Project 766127 - Continuation)

\$109,000.00 - Department of the Army, Army Materiel Command, Fort Monmouth, New Jersey, Computer-Communication Protocols for ISDNs (Integrated Services Digital Networks), Department of Computer and Information Science (M. T. Liu), 1 March 1988 through 31 December 1988. (Project 766613 - New)

\$101,703.00 - Department of Health and Human Services, Public Health Service, Alcohol, Drug Abuse, and Mental Health Administration, Rockville, Maryland, Ethanol Disturbance of Gastrointestinal Nervous System, Department of Physiology (J. D. Wood), 1 February 1988 through 31 January 1989. (Project 765885 - Continuation)

\$100,186.00 - Department of Health and Human Services, Public Health Service, National Institutes of Health, Bethesda, Maryland, Biochemistry of Craniofacial Epithelial Differentiation, Diagnostic Services (C. F. Shuler), 1 February 1988 through 31 January 1989. (Project 765236 - Continuation)

\$99,998.00 - Department of the Navy, Office of Naval Research, Arlington, Virginia, A Theoretical and Experimental Study of Weld Solidification Under Transient Conditions, Department of Welding Engineering (W. A. Baeslack, III), 16 December 1987 through 15 December 1988. (Project 764095 - Continuation)

\$97,812.00 - Department of Health and Human Services, Public Health Service, National Institutes of Health, Bethesda, Maryland, Structure, Function, and Dynamics of P-450 Cytochromes, College of Pharmacy (S. D. Black), 1 February 1988 through 31 January 1989. (Project 766583 - New)

\$97,700.00 - Department of Health and Human Services, Public Health Service, National Institutes of Health, Bethesda, Maryland, Targeting of Organellar Protein Synthesis Factors, Department of Biochemistry (C. A. Breitenberger), 1 February 1988 through 31 January 1989. (Project 766576 - New)

\$92,129.00 - Department of Education, Office of Special Education and Rehabilitation Services, Washington, D.C., Handicapped Personnel Preparation -- Preparation of Special Educators, School of Health, Physical Education and Recreation (W. F. Ersing), 1 July 1988 through 30 June 1989. (Project 765519 - Continuation)

\$91,161.00 - Department of Health and Human Services, Public Health Service, National Institutes of Health, Bethesda, Maryland, Regulation of

April 7 and 8, 1988 meeting, Board of Trustees

REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)

THE OHIO STATE UNIVERSITY RESEARCH FOUNDATION (contd)

Federal Research Contracts/Grants (contd)

the Gene Expression in Neurospora, Department of Biochemistry (G. A. Marzluf), 1 April 1988 through 31 December 1988. (Project 760578 - Continuation)

\$89,434.00 - Department of Health and Human Services, Public Health Service, National Institutes of Health, Bethesda, Maryland, The Gustatory System: Cellular and Synaptic Organization, Oral Biology (M. C. Whitehead), 1 February 1988 through 31 January 1989. (Project 766592 - New)

\$81,038.00 - Department of Health and Human Services, Public Health Service, National Institutes of Health, Bethesda, Maryland, Mechanism of GI Motor Disturbances in Enteric Parasitism, Department of Physiology (J. M. Palmer), 1 February 1988 through 31 January 1989. (Project 766590 - New)

\$74,369.00 - Department of Health and Human Services, Public Health Service, National Institutes of Health, Bethesda, Maryland, The Neural Control of Temperature Regulations, Department of Physiology (J. A. Boulant), 1 March 1988 through 30 November 1988. (Project 761187 - Continuation)

\$68,400.00 - National Science Foundation, Washington, D.C., Experimental Study of Metal Films, Department of Physics (T. R. Lemberger), 1 March 1988 through 31 August 1989. (Project 765249 - Continuation)

\$65,409.00 - Department of the Navy, Office of Naval Research, Arlington, Virginia, Resonant Region NCTR Research, Department of Electrical Engineering, ElectroScience Laboratory (E. K. Walton, R. L. Moses and F. D. Garber), 1 February 1988 through 30 September 1988. (Project 765216 - Continuation)

\$63,800.00 - National Science Foundation, Washington, D.C., Uptake and Metabolism of Select Amino Acids by Cerebral Cortical Cells In Vitro, Oral Biology (W. E. Thomas), 1 March 1988 through 28 February 1989. (Project 766621 - New)

\$62,264.00 - Department of Health and Human Services, Public Health Service, National Institutes of Health, Bethesda, Maryland, Intestinal Bypass Surgery in Hibernation, Department of Physiology (H. J. Cooke), 1 January 1988 through 31 December 1988. (Project 765844 - Continuation)

\$53,009.00 - Department of the Air Force, Air Force Systems Command, Wright-Patterson Air Force Base, Ohio, UTD Scattering from Structures Including Higher Order Terms, Department of Electrical Engineering, ElectroScience Laboratory (R. J. Marhefka), 1 October 1987 through 14 April 1989. (Project 765374 - Continuation)

\$52,800.00 - National Science Foundation, Washington, D.C., Super-conductive Glass State and Other Properties of Granular Materials, Department of Physics (D. G. Stroud), 1 December 1987 through 31 March 1989. (Project 766614 - New)

April 7 and 8, 1988 meeting, Board of Trustees

REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)

THE OHIO STATE UNIVERSITY RESEARCH FOUNDATION (contd)

Federal Research Contracts/Grants (contd)

\$50,000.00 - Department of Energy, Argonne, Illinois, Geochemistry of Small Tundra Drainage Basins in Response to Active Layer Disturbance, Byrd Polar Research Center and Department of Agronomy (K. R. Everett), 1 January 1988 through 31 December 1988. (Project 764231 - Continuation)

\$49,969.00 - National Aeronautics and Space Administration, Lewis Research Center, Cleveland, Ohio, Multi-Layer Film Deposition for High Tc (Transition Temperatures) Superconductors, Department of Electrical Engineering (G. J. Valco), 30 January 1988 through 29 January 1989. (Project 766577 - New)

\$49,246.00 - Department of Health and Human Services, Public Health Service, National Institutes of Health, Bethesda, Maryland, Mechanisms of Mercury Toxicity and Carcinogenicity in Human Cells, Department of Microbiology and Immunology (M. V. Williams), 1 February 1988 through 31 January 1989. (Project 766606 - New)

\$48,834.00 - Department of Health and Human Services, Public Health Service, National Institutes of Health, Bethesda, Maryland, Multiple Hydrogen Bonding-Nucleic Acid Bases, Department of Chemistry (J. Hine and D. W. Meek), 1 March 1988 through 30 November 1988. (Project 763904 - Continuation)

\$47,000.00 - National Science Foundation, Washington, D.C., Noise-Induced Turbulence in Superfluid Helium, Department of Physics (J. T. Tough), 1 May 1988 through 31 October 1989. (Project 766036 - Continuation)

\$44,900.00 - National Science Foundation, Washington, D.C., Topics in the Foundations of Mathematics, Department of Mathematics (H. Friedman), 1 July 1988 through 31 December 1989. (Project 765466 - Continuation)

\$41,996.00 - Department of the Navy, Office of Naval Research, Arlington, Virginia, Ultrasonic Near-Subbottom Characterization and Correlation with Time Variations in Entrainment and Deposition, Department of Civil Engineering (K. W. Bedford and C. M. Libicki), 1 January 1988 through 31 December 1988. (Project 766605 - New)

\$40,233.00 - Department of Health and Human Services, Public Health Service, National Institutes of Health, Bethesda, Maryland, Biotin Enzymes in Sudden Infant Death Syndrome Tissue, Department of Food Science and Nutrition - OARDC and Department of Food Science and Nutrition (J. B. Allred), 1 February 1988 through 31 January 1989. (Project 766568 - New)

\$38,635.00 - Department of Education, Office of Postsecondary Education, Washington, D.C., Supplemental Funds to Initiate, Improve, or Expand a Program of Cooperative Education, College of the Arts and Sciences - Administration, College of Business - Administration, and College of Engineering - Administration (D. W. Good), Agricultural Technical Institute - Administrative Support (D. D. Garrison), School of Health, Physical Education and Recreation (W. A. Sutton), and College of

April 7 and 8, 1988 meeting, Board of Trustees

REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)

THE OHIO STATE UNIVERSITY RESEARCH FOUNDATION (contd)

Federal Research Contracts/Grants (contd)

Education - Administration (J. J. Buffer), 1 October 1987 through 30 September 1988. (Project 766581 - Continuation)

\$38,358.00 - National Aeronautics and Space Administration, Lewis Research Center, Cleveland, Ohio, Modeling of Gear Dynamics, Housing Noise, and Transmissibility of a NASA Spur Gear Test Facility, Department of Mechanical Engineering (D. R. Houser and R. Singh), 9 June 1988 through 8 January 1989. (Project 765863 - Continuation)

\$38,132.00 - Department of Health and Human Services, Public Health Service, National Institutes of Health, Bethesda, Maryland, Luteal Prostaglandins in Primate Early Pregnancy, Department of Dairy Science - OARDC and Department of Dairy Science (J. S. Ottobre), 1 December 1987 through 30 November 1988. (Project 765111 - Continuation)

\$30,191.00 - Department of the Navy, Office of Naval Research, Arlington, Virginia, Studies of the Nonlinear Dynamics of Fluid System, Department of Physics (C. D. Andereck), 1 December 1987 through 30 November 1988. (Project 765156 - Continuation)

\$29,967.00 - National Science Foundation, Washington, D.C., A Knowledge-Based Approach for the Evaluation of Performance of Buildings During the Whittier (California) Earthquake, Department of Civil Engineering (H. Adeli), 1 March 1988 through 31 August 1989. (Project 766599 - New)

\$28,257.00 - Department of Health and Human Services, Public Health Service, National Institutes of Health, Bethesda, Maryland, Multiple Comparisons with the Best Treatment, Department of Statistics (J. C. Hsu), 1 February 1988 through 31 January 1989. (Project 765581 - Continuation)

\$20,000.00 - National Aeronautics and Space Administration, Lewis Research Center, Cleveland, Ohio, Plate Vibrations: A Summary of Useful Results, Department of Engineering Mechanics (A. W. Leissa), 1 March 1988 through 28 February 1989. (Project 766608 - New)

\$19,780.00 - National Science Foundation, Washington, D.C., The Ohio State University Collaborative Research Program in Physical Gas Dynamics and Molecular Energy Transfer, Department of Mechanical Engineering (J. W. Rich), 1 February 1988 through 31 July 1990. (Project 766582 - New)

\$15,550.00 - National Science Foundation, Washington, D.C., Arithmetic of Abelian Varieties, Department of Mathematics (A. Silverberg), 1 December 1988 through 30 November 1989. (Project 766169 - Continuation)

\$15,015.00 - National Science Foundation, Washington, D.C., Chloroplast DNA and the Phylogeny of North American Coreopsis (Asteraceae), Department of Botany (D. Crawford), 1 November 1987 through 31 October 1988. (Project 765376 - Continuation)

April 7 and 8, 1988 meeting, Board of Trustees

REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)

THE OHIO STATE UNIVERSITY RESEARCH FOUNDATION (contd)

Federal Research Contracts/Grants (contd)

\$15,000.00 - National Science Foundation, Washington, D.C., Inter-disciplinary Conference of Randomness, Department of Mathematics (H. Friedman) and Department of Statistics (P. K. Goel), 1 March 1988 through 28 February 1989. (Project 766619 - New)

\$1,100.00 - National Aeronautics and Space Administration, Ames Research Center, Moffett Field, California, Analysis of a Simulated 2-D Viscous Flow for the Case of Hover Flight, Department of Mechanical Engineering (A. T. Conlisk), 1 December 1987 through 31 March 1988. (Project 765301 - Continuation)

TOTAL - FEDERAL AWARDS **\$3,925,597.00**

State of Ohio Research Contracts/Grants

\$34,959.00 - State of Ohio, Department of Mental Retardation and Developmental Disabilities, Columbus, Ohio, Marketing the Abilities of Persons with Developmental Disabilities to Potential Employers, The National Center for Research in Vocational Education (R. D. Ryan), 1 March 1988 through 28 February 1989. (Project 766602 - New)

\$18,628.00 - State of Ohio, Department of Commerce, Columbus, Ohio, Continuing Education Real Estate Law Legal Update Course, College of Business - Administration (R. L. Racster), 1 January 1988 through 28 February 1989. (Project 766598 - New)

\$15,000.00 - State of Ohio, Department of Development, Columbus, Ohio, Regional Labor-Management Cooperation Center, Academic Faculty of Management and Human Resources (D. B. Patton, W. D. Todor and H. R. Bobbitt), 1 July 1987 through 30 June 1988. (Project 766277 - Continuation)

\$10,000.00 - State of Ohio, Department of Natural Resources, Columbus, Ohio, ERDAS Image Processing System, Center for Mapping (J. D. Bossler), 1 January 1988 through 28 February 1988. (Project 766589 - New)

TOTAL - STATE OF OHIO AWARDS **\$ 78,587.00**

Industrial Research Contracts/Grants

\$106,133.00 - Alcoa Defense Systems, Inc., San Diego, California, Advanced Antennas for Future Air Vehicles, Department of Electrical Engineering, ElectroScience Laboratory (B. A. Munk), 1 October 1987 through 30 September 1988. (Project 766329 - Continuation)

\$100,000.00 - Pacific Applied Research, Rancho Palos Verdes, California, Short Wavelength Chemical Laser Fluid Dynamics, Department of Mechanical Engineering (J. W. Rich) and Department of Aeronautical and Astronautical Engineering (J. D. Lee), 15 October 1987 through 14 October 1988. (Project 766600 - New)

April 7 and 8, 1988 meeting, Board of Trustees

REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)

THE OHIO STATE UNIVERSITY RESEARCH FOUNDATION (contd)

Industrial Research Contracts/Grants (contd)

\$75,075.00 - Kali-Duphar Laboratories, Inc., Worthington, Ohio, Eproxindine Hydrochloride (KC 3791): An Intravenous Electrophysiology Study in Patients with Ventricular Tachyarrhythmias, Department of Internal Medicine (S. F. Schaal and S. D. Nelson), 1 January 1988 through 31 December 1988. (Project 766609 - New)

\$57,795.00 - Martin Marietta Corporation, Oak Ridge, Tennessee, Adaptive Welding Control System, Department of Welding Engineering (R. W. Richardson), 27 August 1986 through 29 February 1988. (Project 765673 - Continuation)

\$39,484.00 - Robert R. Nathan Associates, Inc., Washington, D.C., Bangladesh Training Development, Department of Agricultural Economics and Rural Sociology (R. L. Meyer), 1 January 1988 through 30 June 1988. (Project 766588 - New)

\$38,325.00 - Eli Lilly and Company, Indianapolis, Indiana, LY163892 Versus Keflex in Uncomplicated Cystitis and Asymptomatic Bacteriuria, Department of Internal Medicine (J. F. Plouffe), 1 February 1988 through 31 July 1989. (Project 766595 - New)

\$37,500.00 - Air Products and Chemicals, Inc., Allentown, Pennsylvania, Chelate Dioxxygen Carriers for Use in Facilitated Transport, Department of Chemistry (D. H. Busch), 1 February 1988 through 31 July 1988. (Project 763432 - Continuation)

\$35,000.00 - PepsiCo, Inc., Valhalla, New York, Isolation and Characterization of the Protein Fraction of Gum Arabic, Department of Food Science and Nutrition - OARDC and Department of Food Science and Nutrition (M. E. Mangino), 1 January 1988 through 31 December 1988. (Project 766532 - New)

\$30,005.00 - Martin Marietta Corporation, Oak Ridge, Tennessee, Adaptive Welding Control System, Department of Welding Engineering (R. W. Richardson), 1 March 1988 through 31 May 1988. (Project 765673 - Continuation)

\$27,005.00 - Eli Lilly and Company, Indianapolis, Indiana, LY163892 Versus Keflex in Bacterial Skin Infections, Department of Internal Medicine (J. F. Plouffe), 1 February 1988 through 31 July 1989. (Project 766594 - New)

\$26,410.00 - Yellow Springs Instrument Company, Inc., Yellow Springs, Ohio, An Investigation of the YSI On-Line Glucose System, Department of Microbiology (W. R. Strohl), 1 January 1988 through 31 December 1988. (Project 766616 - New)

\$24,380.00 - CIBA-GEIGY Corporation, Summit, New Jersey, Efficacy and Tolerability of Anafranil Versus Placebo in Obsessive-Compulsive Disorder, Department of Psychiatry (M. R. Mavissakalian), 1 November 1986 through 23 July 1988. (Project 765782 - Continuation)

April 7 and 8, 1988 meeting, Board of Trustees

REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)

THE OHIO STATE UNIVERSITY RESEARCH FOUNDATION (contd)

Industrial Research Contracts/Grants (contd)

\$21,844.00 - Dupont Critical Care, Waukegan, Illinois, Safety and Tolerance to Increasing Infusion Rates of the Phenytoin Pro-Drug Administered as a Bolus Dose to Healthy Human Volunteers, Department of Pharmacology (N. Gerber), 19 December 1986 through 30 June 1987. (Project 765696 - Continuation)

\$19,995.00 - Universal Energy Systems, Inc., Dayton, Ohio, Low Velocity Impact of Graphite/Epoxy Plates, Department of Civil Engineering (W. E. Wolfe), 15 January 1988 through 15 August 1988. (Project 766585 - New)

\$16,850.00 - Eli Lilly and Company, Indianapolis, Indiana, LY163892 Versus Keflex in Uncomplicated Pyelonephritis, Department of Internal Medicine (J. F. Plouffe), 1 February 1988 through 31 July 1989. (Project 766596 - New)

\$11,350.00 - Ross Laboratories, Columbus, Ohio, The Effects of Vital High Nutrition on Intestinal Electrolyte Transport, Department of Internal Medicine (T. S. Gaginella), 1 January 1988 through 31 December 1988. (Project 766604 - New)

\$5,743.00 - Sandia Corporation, Albuquerque, New Mexico, Polar and Non-Polar Diatomic Molecule Scattering from the Surfaces of Solids, Department of Chemistry (P. L. Jones), 1 January 1988 through 31 March 1988. (Project 766441 - Continuation)

\$2,900.00 - Kemin Industries, Inc., Des Moines, Iowa, The Vitamin E Sparing Effects of Several Antioxidants, Department of Poultry Science - OARDC and Department of Poultry Science (J. D. Latshaw), 15 February 1988 through 15 April 1988. (Project 766620 - New)

TOTAL - INDUSTRIAL AWARDS \$ 675,794.00

Other Non-Federal Research Contracts/Grants

\$127,700.00 - Gleason Memorial Fund, Rochester, New York, Enhancements of OSU's Single Flank Transmission Error Measurement Capability, Department of Mechanical Engineering (D. R. Houser), 1 February 1988 through 31 January 1989. (Project 766597 - New)

\$65,256.00 - Columbus Human Services Department, Columbus, Ohio, The Columbus Neighborhood Technical Assistance Program, Department of City and Regional Planning (S. I. Gordon), 1 January 1988 through 31 December 1988. (Project 766610 - Continuation)

\$35,000.00 - The Petroleum Research Fund, Washington, D.C., Template-Directed Synthesis of Nucleosides, Department of Chemistry (A. W. Czarnik), 1 January 1988 through 31 August 1990. (Project 766566 - New)

\$32,395.00 - Cornell University, Ithaca, New York, Design, Prototype, and Debug Mixer-Shaper Boards for CLEO, Department of Physics (H. P. Kagan

April 7 and 8, 1988 meeting, Board of Trustees

REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)

THE OHIO STATE UNIVERSITY RESEARCH FOUNDATION (contd)

Other Non-Federal Research Contracts/Grants (contd)

and R. D. Kass), 1 January 1988 through 31 December 1988. (Project 766574 - New)

\$25,000.00 - March of Dimes Birth Defects Foundation, White Plains, New York, Adverse Effect of Gossypol and Gossypol-Containing Milk on Reproductive Function in Nursing Dams and Their Pups, Department of Veterinary Physiology and Pharmacology (Y. C. Lin), 1 December 1987 through 30 November 1988. (Project 766601 - New)

\$18,000.00 - The Petroleum Research Fund, Washington, D.C., Freezing of Diatomic Molecules, Department of Chemistry (S. J. Singer), 1 February 1988 through 31 August 1990. (Project 766618 - New)

\$15,000.00 - Tinker Foundation, New York, New York, Field Research Grants to Latin America and Iberia, University Center for International Studies (S. J. Summerhill) and Department of Agricultural Economics and Rural Sociology (D. H. Graham), 1 January 1988 through 31 December 1988. (Project 766603 - Continuation)

\$14,000.00 - March of Dimes Birth Defects Foundation, White Plains, New York, Infants at Risk for Communicative Disorders: Predicting Language Development from Infant Phonetic Contrast and Very Low Birth Weight, Department of Communication (H. Bauer), 1 March 1988 through 28 February 1989. (Project 766077 - Continuation)

\$13,880.00 - University of Virginia, Charlottesville, Virginia, Nuclear Reactor Operator Training for Disadvantaged Americans, Department of Mechanical Engineering (B. K. Hajek) and Engineering Experiment Station (R. D. Myser), 1 January 1988 through 31 December 1988. (Project 765797 - Continuation)

\$11,877.00 - Cancer Therapy and Research Foundation of South Texas, San Antonio, Texas, SWOG Study 8412, Department of Pathology (R. O'Toole), 25 November 1987 through 24 November 1988. (Project 765202 - Continuation)

\$10,312.00 - Texas A & M University, College Station, Texas, Leg 120 Scientific Prospectus, Byrd Polar Research Center (D. H. Elliot and D. M. Harwood), 26 February 1988 through 27 May 1988. (Project 766615 - New)

\$10,000.00 - National Geographic Society, Washington, D.C., The Isthmus of Panama Since the Last Glacial Maximum, Department of Zoology (P. A. Colinvaux), 1 February 1988 through 31 January 1989. (Project 766593 - New)

\$8,127.60 - Gallipolis Developmental Center, Gallipolis, Ohio, Graduate Research Associate Internship Training, Nisonger Center (S. R. Schroeder), 1 January 1988 through 30 June 1988. (Project 766548 - New)

\$6,500.00 - The University of West Florida, Pensacola Florida; Florida Department of Education, Tallahassee, Florida; Washington Department of Public Instruction, Olympia, Washington; and Wisconsin Board of Vocational, Technical, and Adult Education, Madison, Wisconsin, National

April 7 and 8, 1988 meeting, Board of Trustees

REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)

THE OHIO STATE UNIVERSITY RESEARCH FOUNDATION (contd)

Other Non-Federal Research Contracts/Grants (contd)

Entrepreneurship Education Consortium, The National Center for Research in Vocational Education (R. D. Ryan), 1 July 1987 through 30 June 1988. (Project 766207 - Continuation)

\$5,000.00 - United Cancer Council, Carmel, Indiana, Experimental Development of Lasers for Treatment of Prostate Tumors, Department of Surgery (J. R. Drago) and Comprehensive Cancer Center (D. S. Yohn), 1 January 1988 through 31 December 1988. (Project 766611 - New)

\$4,998.00 - Houston Independent School District, Houston, Texas, Technical Assistance on Developing Vocational Program Evaluation Effort for the Houston Independent School District, The National Center for Research in Vocational Education (R. D. Ryan), 1 November 1987 through 29 February 1988. (Project 766586 - New)

\$3,000.00 - Battelle Memorial Institute, Columbus, Ohio, Interdisciplinary Research on Wear of Materials, Department of Metallurgical Engineering (D. A. Rigney), 1 August 1987 through 29 February 1988. (Project 764981 - Continuation)

\$2,000.00 - Macomb Community College, Warren, Michigan, National Alliance of Community and Technical Colleges, The National Center for Research in Vocational Education (R. D. Ryan), 1 July 1987 through 30 June 1988. (Project 766171 - Continuation)

\$1,640.90 - University of Minnesota, St. Paul, Minnesota, Technical Assistance to Moroccan Participant Driss Massahou on His Dissertation, Department of Agricultural Engineering (R. J. Gustafson), 18 January 1988 through 22 January 1988. (Project 766617 - New)

\$809.00 - Cancer Therapy and Research Foundation of South Texas, San Antonio, Texas, Multidisciplinary Participation in the Cancer Control Activities of the Southwest Oncology Group, Department of Internal Medicine (S. P. Balcerzak), 1 January 1988 through 31 December 1988. (Project 763118 - Continuation)

\$500.00 - The Ohio Academy of Science, Columbus, Ohio, In-Service Workshop to Promote Student Research in Litter Prevention and Recycling, Cooperative Extension State Operations (J. D. Rohrer), 1 January 1988 through 15 February 1988. (Project 766578 - New)

\$40.00 - The Edgar W. Ingram Foundation, Columbus, Ohio, The Critical Thinking Conference for Franklin County Junior and Senior High School Faculty and Staff, University College Administration (K. Laroe), 25 February 1988 through 25 February 1988. (Project 766178 - Continuation)

TOTAL - OTHER NON-FEDERAL AWARDS

\$ 411,035.50

April 7 and 8, 1988 meeting, Board of Trustees

REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)

ENGINEERING EXPERIMENT STATION

Industrial and Other Sponsored Research and Development

\$61,570.00 - from 42 sponsors of 48 development projects through four department/research areas of the College of Engineering.

\$60,000.00 - Additional budget from Battelle Columbus Division, Columbus, OH, "Heat Exchanger Aspects of a Gas Fired Cooling Only Heat Pump," Department of Mechanical Engineering, 1 September 1987 through 30 September 1988. (312439, Ext. 1)

\$30,000.00 - General Motors Corporation, Warren, MI, "Polymer Engineering Research Program, "Department of Chemical Engineering," 1 September 1987 through 31 August 1988. (529638, Ext. 5)

\$28,200.00 - Ford Motor Company, Dearborn, MI, "Gear Noise Testing to Determine the Effect of Shaft Mis-alignment for Several Gear Designs," Department of Mechanical Engineering, 19 February 1988 through 31 October 1988. (312447)

\$10,000.00 - Representing corporate funding from Plaskolite, Inc., Columbus, OH, "Optimization of Poly (methyl methacrylate) Bulk Polymerization, (529731)," Department of Chemical Engineering, 1 October 1987 through 30 June 1988. (529751)

\$6,200.00 - Additional budget from Universal Energy Systems, Inc., Dayton, OH, "Advanced Simulation Language and Multi-Computer Design for Improving the Performance of Modeling and Control of Metal Forming Processes," Department of Computer and Information Science, 15 November 1987 through 30 June 1988. (312869, Ext. 3)

TOTAL - INDUSTRIAL AND OTHER SPONSORED RESEARCH **\$ 195,970.00**

THE OHIO STATE UNIVERSITY DEVELOPMENT FUND

Establishment of Named Funds

The Abba G. Lichtenstein Fund in Civil Engineering

The Abba G. Lichtenstein Fund in Civil Engineering was established April 8, 1988, by the Board of Trustees of The Ohio State University with gifts to The Ohio State University Development Fund from Abba G. Lichtenstein (B.C.E. '48), Tenafly, New Jersey.

All gifts are to be invested in the University's permanent endowment fund, under the rules and regulations adopted by the Board of Trustees of The Ohio State University with the right to invest and reinvest as occasion dictates.

The annual income shall be used to enhance the educational and research interests of the Department of Civil Engineering. This support will be used primarily in the area of infrastructures. Expenditures from the fund shall be approved by the Dean of the College of Engineering.

April 7 and 8, 1988 meeting, Board of Trustees

REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)

THE OHIO STATE UNIVERSITY DEVELOPMENT FUND (contd)

Establishment of Named Funds (contd)

The Abba G. Lichtenstein Fund in Civil Engineering (contd)

It is the desire of the donor that this fund should benefit the University in perpetuity. If the need for this fund should cease to exist or so diminish as to provide unused income, then another use shall be designated by the Board of Trustees in order to carry out the desire of the donor.

The Farm Income Enhancement Program Fund

The Farm Income Enhancement Program Fund was established April 8, 1988, by the Board of Trustees of The Ohio State University with gifts to The Ohio State University Development Fund from Nationwide Insurance Company, contributing members of the Ohio Farm Bureau Federation, and appropriations from the State of Ohio to fund a cooperative venture.

All gifts are to be invested in the University's permanent endowment fund, under the rules and regulations adopted by the Board of Trustees of The Ohio State University with the right to invest and reinvest as occasion dictates.

The annual income and additional gifts shall be added to the fund's principal until such time the principal reaches \$1,250,000. The fund will create an endowed chair in the Department of Agricultural Economics and Rural Sociology. The mission of the chair is to benefit the nation's farmers by finding ways to increase profit and to assist farmers in finding solutions to policy and international trade problems. The chair holder will lead the research effort to develop innovative solutions that aid agricultural industries in expanding product uses, developing new markets, and making current markets more lucrative.

It is the desire of the donors that this fund should benefit the University in perpetuity. If the need for this fund should cease to exist or so diminish as to provide unused income, then another use shall be designated by the Board of Trustees in order to carry out the desire of the donors.

The Robert J. Kane Lecture Fund in English Studies

The Robert J. Kane Lecture Fund in English Studies was established April 8, 1988, by the Board of Trustees of The Ohio State University with gifts to The Ohio State University Development Fund from the Estate of Robert J. Kane (B.A., Arts & Sciences, 1921; M.A., English, 1922), Columbus, Ohio.

All gifts are to be invested in the University's permanent endowment fund, under the rules and regulations adopted by the Board of Trustees of The Ohio State University with the right to invest and reinvest as occasion dictates.

April 7 and 8, 1988 meeting, Board of Trustees

REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)

THE OHIO STATE UNIVERSITY DEVELOPMENT FUND (contd)

Establishment of Named Funds (contd)

The Robert J. Kane Lecture Fund in English Studies (contd)

The annual income shall be used to fund an annual lecture, administered by the Department of English, to be named the Robert J. Kane Lecture in English Studies. Each year a distinguished speaker of national or international reputation will give a major talk on a topic related to literature, criticism or critical theory, the study of language, film studies, literacy, rhetoric, folklore, or any of the other areas relevant to the disciplines of the Department of English. The fund will be used for the speaker's honorarium and for related expenses. The selection of the annual speaker will be the responsibility of the executive committee of the Department of English or its designees.

It is the desire of the donor that this fund should benefit the University in perpetuity. If the need for this fund should cease to exist or so diminish as to provide unused income, then another use shall be designated by the Board of Trustees in order to carry out the desire of the donor, with preference being given to recommendations which meet the educational goals of the Department of English.

Gertrude Kuehefuhs Piano Accompanists Endowment Fund

The Gertrude Kuehefuhs Piano Accompanists Endowment Fund was established April 8, 1988, by the Board of Trustees of The Ohio State University with gifts to The Ohio State University Development Fund from the Estate of Gertrude Kuehefuhs, Columbus, Ohio.

All gifts are to be invested in the University's permanent endowment fund, under the rules and regulations adopted by the Board of Trustees of The Ohio State University with the right to invest and reinvest as occasion dictates.

The annual income shall be used to provide scholarships, assistantships, or grants to one or more talented student accompanists in the School of Music. Both undergraduate and graduate students are eligible to receive the scholarships. Recipients will be determined by the established procedures within the School of Music by the Director of the School of Music in consultation with the appropriate music faculty, the University Committee on Student Financial Aid, and with approval of the Dean of the College of The Arts.

It is the desire of the donor that this fund should benefit the University in perpetuity. If the need for this fund should cease to exist or so diminish as to provide unused income, then another use shall be designated by the Board of Trustees in order to carry out the desire of the donor.

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REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)

THE OHIO STATE UNIVERSITY DEVELOPMENT FUND (contd)

Establishment of Named Funds (contd)

The Dairy Science Chair in Lactational Physiology and Mammary Health

The Dairy Science Chair in Lactational Physiology and Mammary Health was established April 8, 1988, by the Board of Trustees of The Ohio State University with gifts to The Ohio State University Development Fund from industry, alumni, faculty and friends of the Department of Dairy Science.

All gifts are to be invested in the University's permanent endowment fund, under the rules and regulations adopted by the Board of Trustees of The Ohio State University with the right to invest and reinvest as occasion dictates.

The annual income shall be used to provide salary and program support for the work of a distinguished teacher and scholar in the field of lactational physiology and mammary health as recommended by the Vice President for Agricultural Administration to the Provost of The Ohio State University and approved by the Board of Trustees. In the absence of such a faculty member, income shall be used for the development of this fund and/or to support research directed to the improvement of dairy management and dairy cow production.

It is the desire of the donors that this fund should benefit the University in perpetuity. If the need for this fund should cease to exist or so diminish as to provide unused income, then another use shall be designated by the Board of Trustees in order to carry out the desire of the donors, with preference being given to recommendations from the appropriate administrative officials of the University who are then directly responsible for Dairy Science education or from the Vice President for Agricultural Administration.

The Ohio State University Staff Career Development Fund

The Ohio State University Staff Career Development Fund was established April 8, 1988, by the Board of Trustees of The Ohio State University with gifts to The Ohio State University Development Fund from faculty and staff members of The Ohio State University.

All gifts are to be invested in the University's permanent endowment fund, under the rules and regulations adopted by the Board of Trustees of The Ohio State University with the right to invest and reinvest as occasion dictates.

The annual income shall be used to provide staff members of the University with grants for education, training and professional development activities related to their job and career goals. The grants may be used for tuition or fees for courses, workshops, conferences or other appropriate professional activities; books or other required materials; travel or other related expenses such as child care. Grants will be available for any regular full- or part-time staff member who has worked at the University a minimum of two years. Grants for part-time

April 7 and 8, 1988 meeting, Board of Trustees

REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)

THE OHIO STATE UNIVERSITY DEVELOPMENT FUND (contd)

Establishment of Named Funds (contd)

The Ohio State University Staff Career Development Fund (contd)

employees will be prorated on the basis of their full-time equivalence. Individuals may receive up to two awards within any two-year period. Staff members who have not received an award will be given priority. The maximum award is \$500. Smaller requests are equally encouraged. Criteria for the award shall include: 1) Appropriateness of education or training in relation to the employees' job, career or professional development goals; 2) Evidence that the requested education and training either is not currently available at the University and/or cannot be funded from other sources such as fee authorization.

The fund will be administered by the Office of Human Relations. Applications may be submitted at any time, and awards will be made on a quarterly basis. The Staff Advisory Committee will recommend recipients to the Executive Officer for Human Relations. Their review process will be based on stated criteria. The awards in any given year will not exceed the income of the endowment.

It is the desire of the donors that this fund should benefit the University in perpetuity. If the need for this fund should cease to exist or so diminish as to provide unused income, then another use shall be designated by the Board of Trustees in order to carry out the desire of the donors.

The Stark County Alumni Scholars Program

The Stark County Alumni Scholars Program was established April 8, 1988, by the Board of Trustees of The Ohio State University with gifts to The Ohio State University Development Fund from the Stark County/Ohio State University Alumni Club and residents of Stark County, Ohio.

All gifts are to be invested in the University's permanent endowment fund, under the rules and regulations adopted by the Board of Trustees of The Ohio State University with the right to invest and reinvest as occasion dictates.

Twenty percent (20%) of the annual income shall be added to the fund's principal. The remaining eighty percent (80%) of the annual income shall be used to provide scholarship support for one or more qualified students enrolled at The Ohio State University. Selection of the scholarship recipients will be made by the Stark County Alumni Club and The Ohio State University Alumni Association, in cooperation with the University Committee on Financial Aid.

The purpose and intent of this scholarship is set forth as follows: The recipients will be designated "Alumni Scholars." To be eligible, a student must have attended a high school in Stark County or be a resident of Stark County. Preference will be given to first quarter freshmen at The Ohio State University who are academically outstanding. This full tuition scholarship will be renewable to a maximum of 12 quarters.

April 7 and 8, 1988 meeting, Board of Trustees

REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)

THE OHIO STATE UNIVERSITY DEVELOPMENT FUND (contd)

Establishment of Named Funds (contd)

The Stark County Alumni Scholars Program (contd)

Renewal will depend upon the student continuing to demonstrate outstanding achievement and successful academic progress toward a degree, consistent with similar University scholarships.

It is the desire of the donors that this fund should benefit the University in perpetuity. If the need for this fund should cease to exist or so diminish as to provide unused income, then another use shall be designated by the Board of Trustees in order to carry out the desire of the donors.

The Paul G. Korn and Gary B. Korn Scholarship Fund

The Paul G. Korn and Gary B. Korn Scholarship Fund was established April 8, 1988, by the Board of Trustees of The Ohio State University with gifts to The Ohio State University Development Fund from the Estate of Aunalee S. Korn, Sidney, Ohio.

All gifts are to be invested in the University's permanent endowment fund, under the rules and regulations adopted by the Board of Trustees of The Ohio State University with the right to invest and reinvest as occasion dictates.

The annual income shall be used for a scholarship for an undergraduate student with demonstrated financial need who is enrolled in food technology. Selection will be made each year by an appointee of the Dean of the College of Home Economics in consultation with the University Committee on Student Financial Aid and the Department of Human Nutrition and Food Management.

It is the desire of the donor that this fund should benefit the University in perpetuity. If the need for this fund should cease to exist or so diminish as to provide unused income, then another use shall be designated by the Board of Trustees in order to carry out the desire of the donor.

Change of Name and Description of Named Funds

The Jean S. Bowers/Fern E. Hunt Fellowship Fund

The Department of Home Management and Housing Endowment Fund was established February 4, 1983, by the Board of Trustees of The Ohio State University with gifts to The Ohio State University Development Fund from alumni, faculty and friends of the Department of Family Resource Management of the College of Home Economics. The name and description were changed to the Department of Family Resource Management Endowment Fund on September 5, 1986. Further changes in the name and description were made April 8, 1988.

April 7 and 8, 1988 meeting, Board of Trustees

REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)

THE OHIO STATE UNIVERSITY DEVELOPMENT FUND (contd)

Change of Name and Description of Named Funds (contd)

The Jean S. Bowers/Fern E. Hunt Fellowship Fund (contd)

All gifts are to be invested in the University's permanent endowment fund, under the rules and regulations adopted by the Board of Trustees of The Ohio State University with the right to invest and reinvest as occasion dictates.

All of the annual income shall be used for graduate fellowships in the Department of Family Resource Management. Expenditure of income will be determined by the Chairperson and two faculty members of the Department of Family Resource Management.

Should the need for this fund cease to exist or so diminish as to provide unused income, then the income may be used for any purpose whatsoever as determined by the Board of Trustees, with preference being given to the recommendations from the appropriate administrative official of the University who is then directly responsible for consumer/family economics, equipment and family resource management education.

**Mervin G. Smith Student and Faculty Fund in
International Agriculture**

The Mervin G. Smith International Scholarship Fund in Agriculture was established July 22, 1977, and revised February 3, 1984. The name and description were changed again in accordance with the wishes of the donor on April 8, 1988.

All gifts are to be invested in the University's permanent endowment fund, under the rules and regulations adopted by the Board of Trustees of The Ohio State University with the right to invest and reinvest as occasion dictates.

The annual income shall be used primarily to provide scholarships for undergraduate and/or graduate students in the College of Agriculture and closely-related areas who have demonstrated academic ability and financial need, with preference given to students for training, studying, and/or conducting research abroad. The selection of the recipients is to be made upon the recommendation of the administrator directly responsible for international affairs in the College of Agriculture, in cooperation with the Dean of the College of Agriculture and the University Committee on Student Financial Aid. The donor is to be consulted about the selection of scholarship recipients, during his lifetime.

An additional use of the annual income from the fund will be for an International Award of Merit each year to the outstanding international faculty member in the College of Agriculture. The first such award will be \$500 but will not exceed ten percent (10%) of the available annual income thereafter. This faculty member shall be outstanding in international teaching, research, work abroad, consulting, or professional writing, or a combination thereof. The selection of the recipient is to be made upon the recommendation of a college faculty

April 7 and 8, 1988 meeting, Board of Trustees

REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)

THE OHIO STATE UNIVERSITY DEVELOPMENT FUND (contd)

Change of Name and Description of Named Funds (contd)

**Mervin G. Smith Student and Faculty Fund in
International Agriculture (contd)**

committee in cooperation with the administrative person directly responsible for international affairs along with the Dean of the College of Agriculture. The award may be presented through the Gamma Sigma Delta Honor Society of Agriculture, Ohio Chapter.

At such time as the principal of the fund reaches \$100,000 or more, some of the annual income can be used for seminars, expenses for participation in international meetings, improving foreign student education, and other purposes which promote international agriculture in the College of Agriculture. The use for these purposes shall be determined by the administrator in charge of international affairs and the Dean in the College of Agriculture in consultation with the donor, during his lifetime.

At the end of each fiscal year any unused income shall be added to the fund's principal.

Should the need for this fund cease to exist or so diminish as to provide unused income, then the income shall be used for any purpose whatsoever as determined by the Board of Trustees, with preference being given to recommendations from the appropriate administrative officials of the University who are then directly responsible for international agriculture, education and research.

Change in Description of Named Fund

The Admissions and Allocations Fund

The Admissions and Allocations Fund was established September 5, 1986, by the Board of Trustees of The Ohio State University with gifts to The Ohio State University Development Fund from numerous donors. The description was changed April 8, 1988.

All gifts are to be invested in the University's permanent endowment fund, under the rules and regulations adopted by the Board of Trustees of The Ohio State University with the right to invest and reinvest as occasion dictates.

The annual income shall be used to support projects and programs as determined each year by the Admissions and Allocations Committee of The Ohio State University Development Fund. Moreover, said Committee is authorized to invade the fund's principal to assure maximum benefit for deserving projects and programs.

Should the need for this fund cease to exist or so diminish as to provide unused income, then the income may be used for any purpose whatsoever as determined by the Board of Trustees.

April 7 and 8, 1988 meeting, Board of Trustees

**REPORT OF AWARD OF CONTRACTS AND
ESTABLISHMENT OF CONTINGENCY FUNDS**

Resolution No. 88-109

Synopsis: Contracts have been awarded for the projects listed below to the lowest and best bidders in accordance with University procedures.

WHEREAS resolutions adopted by the Board of Trustees at previous meetings authorized the President and/or Vice President for Business and Administration, to sign the plans and specifications and, in accordance with established University procedures, to request bids and, if satisfactory bids were received, to recommend the award of contracts for the McCracken Power Plant - Facilities Improvements and St. John Arena Repairs projects as follows:

MCCRACKEN POWER PLANT - FACILITIES IMPROVEMENTS

Description: This project provides for the general renovation of the existing locker room on the operating level and the two laboratories directly above on the mezzanine level to convert them into a new men's locker room, women's locker room, instruments repair laboratory, and a new laboratory on the operating level floor. Construction is scheduled to begin April 1988 and be completed within one hundred eighty days.

General Contract

Date Received:	February 3, 1988
No. of Bids:	8
Low Bid:	\$ 72,411.00
High Bid:	\$119,780.00
Estimate of Cost:	\$ 91,100.00
Awarded to:	Lagen Corp., Columbus, OH

Plumbing Contract

Date Received:	February 3, 1988
No. of Bids:	6
Low Bid:	\$ 25,945.00 ⁺
High Bid:	\$ 44,900.00
Estimate of Cost:	\$ 24,400.00
Awarded to:	Maintenance Masters, Canfield, OH

⁺Plumbing and HVAC Contracts are in excess of filed estimate of cost; however, the total price of all contracts is within 10% of the total estimate of cost and is recommended for award as provided by Section 153.12 of the Revised Code.

April 7 and 8, 1988 meeting, Board of Trustees

**REPORT OF AWARD OF CONTRACTS AND
ESTABLISHMENT OF CONTINGENCY FUNDS (contd)**

MCCRACKEN POWER PLANT - FACILITIES IMPROVEMENTS (contd)

HVAC Contract

Date Received:	March 18, 1988
No. of Bids:	4
Low Bid:	\$ 49,690.00 ⁺
High Bid:	\$ 61,851.00
Estimate of Cost:	\$ 32,500.00
Awarded to:	Marco Plumbing & Heating, Columbus, OH

Electric Contract

Date Received:	February 3, 1988
No. of Bids:	7
Low Bid:	\$ 11,800.00
High Bid:	\$ 17,600.00
Estimate of Cost:	\$ 13,000.00
Awarded to:	Scioto Electric, Lancaster, OH

Total All Contracts: \$159,846.00

Total Contingency Allowance: \$ 16,691.38 (which is 9.5% of construction costs)

Total Project Cost: \$214,632.00

Funding: 1985 Series A and B Bonds

⁺Plumbing and HVAC Contracts are in excess of filed estimate of cost; however, the total price of all contracts is within 10% of the total estimate of cost and is recommended for award as provided by Section 153.12 of the Revised Code.

ST. JOHN ARENA REPAIRS

Description: Repairs to various areas to enhance occupancy. Construction is scheduled to begin May 2, 1988, and be completed by August 1, 1988.

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**REPORT OF AWARD OF CONTRACTS AND
ESTABLISHMENT OF CONTINGENCY FUNDS (contd)**

ST. JOHN ARENA REPAIRS (contd)

General Contract

Date Received:	March 1, 1988
No. of Bids:	5
Low Bid:	\$187,698.00
High Bid:	\$316,274.00
Estimate of Cost:	\$250,000.00
Awarded to:	Martin Construction, Columbus, OH
Total All Contracts:	\$187,698.00
Total Contingency Allowance:	\$ 18,769.65 (which is 10% of construction costs)
Total Project Cost:	\$248,845.00
Funding:	University Funds

NOW THEREFORE

BE IT RESOLVED, That pursuant to the actions previously authorized by the Board, the award of contracts and the establishment of project funds and contingency funds for the projects listed above are hereby approved.

Upon motion of Mr. Kessler, seconded by Mr. Immke, the Board of Trustees adopted the foregoing resolution by unanimous roll call vote.

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**EASEMENT
COLUMBUS SOUTHERN POWER COMPANY**

Resolution No. 88-110

Synopsis: Renewal of an electric line easement to Columbus Southern Power Company is proposed.

WHEREAS in 1973 the University granted to Columbus Southern Power Company a 15-year easement for electric lines located near the Woody Hayes Athletic Center; and

WHEREAS this easement has expired and Columbus Southern Power Company has requested a renewal of the easement for a period of 15 years; and

WHEREAS the electric lines serve University property; and

April 7 and 8, 1988 meeting, Board of Trustees

**EASEMENT
COLUMBUS SOUTHERN POWER COMPANY (contd)**

WHEREAS the appropriate University offices have recommended the renewal of this easement:

NOW THEREFORE

BE IT RESOLVED, That the President and/or Vice President for Business and Administration be authorized to request the Deputy Director of Public Works of the Department of Administrative Services, pursuant to his statutory duties, to act for and on behalf of the University in developing the necessary legal instruments to provide for this easement.

Upon motion of Mr. Barone, seconded by Ms. Casto, the Board of Trustees adopted the foregoing resolution by unanimous roll call vote.

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**EASEMENT
OHIO POWER COMPANY**

Resolution No. 88-111

Synopsis: Authorization to grant an easement to the Ohio Power Company for installation of electric service is requested.

WHEREAS the Ohio Power Company has requested a 15-year easement consisting of a strip of land 10 feet in width and approximately 530 feet in length for an easement located on Ohio Agricultural Research and Development Center property in Fremont, Ohio; and

WHEREAS the electrical service will serve University property; and

WHEREAS the appropriate University offices have recommended this easement be granted:

NOW THEREFORE

BE IT RESOLVED, That the President and/or Vice President for Business and Administration be authorized to request the Deputy Director of Public Works of the Department of Administrative Services, pursuant to his statutory duties, to act for and on behalf of the University in developing the necessary legal instruments to provide for this easement.

Upon motion of Mr. Barone, seconded by Ms. Casto, the Board of Trustees adopted the foregoing resolution by unanimous roll call vote.

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STUDENT HEALTH INSURANCE

Resolution No. 88-112

Synopsis: Renewal of the Student Health Insurance Program with Central Benefits Mutual Insurance Company, formerly known as Blue Cross of Central Ohio, is proposed.

April 7 and 8, 1988 meeting, Board of Trustees

STUDENT HEALTH INSURANCE (contd)

WHEREAS on March 6, 1987, this Board awarded a one year contract (effective Autumn Quarter 1987) to provide Student Health Insurance with the understanding that the program would be competitively rebid; and

WHEREAS after consideration of the desires and concerns of the students who purchase the insurance, the Student Health Insurance Committee of the Council of Student Affairs has recommended -- and the full Council on Student Affairs has ratified this recommendation -- that the competitively bid contract continue to provide the existing benefits plus the following improved/changed benefits:

Increase the preventive dental benefit for cleaning from \$15 to \$20.

Eliminate the twenty-four (24) month major medical runout of benefits and the fifty-two (52) week runout of benefits for accidental injury and sickness.

Increase the option of continuing coverage when not enrolled at the University from the current one (1) quarter to three (3) quarters.

WHEREAS this program will be available on an optional basis to all registered students for the following proposed Quarterly Premium Rates:

<u>Classification</u>	Expiring Quarterly Rates	Proposed Quarterly Rates
	<u>1987-88</u>	<u>1988-89</u>
Student	\$ 55	\$ 72
Student & Spouse	163	221
Student, Spouse & Children	236	322
Student & Children	127	171

NOW THEREFORE

BE IT RESOLVED, That Central Benefits Mutual Insurance Company be awarded the competitively bid Student Health Insurance contract effective the first day of classes, Autumn Quarter 1988 for a period of one (1) year. The contract will provide the benefits outlined above as well as those now available under the terms of the current contract.

Upon motion of Mr. Immke, seconded by Ms. Casto, the Board of Trustees adopted the foregoing resolution by unanimous roll call vote.

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CENTRAL BILLING SYSTEM FOR THE UNIVERSITY HOSPITALS

Resolution No. 88-113

Synopsis: Employment of an accounting firm to design a central billing system for the University Hospitals is proposed.

WHEREAS the University is desirous of implementing a unique centralized billing system in the University Hospitals so that patients will receive

April 7 and 8, 1988 meeting, Board of Trustees

CENTRAL BILLING SYSTEM FOR THE UNIVERSITY HOSPITALS (contd)

a single itemized bill for all professional services provided in a hospital stay; and

WHEREAS various University and Hospitals officials have reviewed the possibility of a centralized billing system and are now prepared to move forward towards implementation; and

WHEREAS it has been determined that the University should now obtain the professional services of an accounting firm familiar with the billing practices of hospitals to make recommendations for implementing a specialized central billing system; and

WHEREAS the professional fees for these services is estimated to be \$46,000 to \$51,000:

NOW THEREFORE

BE IT RESOLVED, That the University enter into an agreement with the firm of Ernst & Whinney to review and make recommendations for implementing a centralized billing system at the University Hospitals for all professional services; and

BE IT FURTHER RESOLVED, That the President and/or Vice President for Health Services be authorized to enter into the necessary agreements in furtherance of this plan on behalf of this Board and the University.

Upon motion of Mr. Immke, seconded by Mr. Teaford, the Board of Trustees adopted the foregoing resolution by unanimous roll call vote.

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**AGREEMENT BETWEEN THE OHIO STATE UNIVERSITY
AND CHILDREN'S HOSPITAL, INC.**

Resolution No. 88-114

Synopsis: Authorization to enter into an agreement between The Ohio State University and Children's Hospital, Inc. is proposed.

WHEREAS the Children's Hospital, Inc. of Columbus, Ohio, and The Ohio State University have been operating under an affiliation agreement since April 17, 1964; and

WHEREAS the Board of Trustees of The Ohio State University and the Board of Trustees of Children's Hospital, Inc. share a common mission of research and education in the specialty area of pediatrics and in a variety of other health fields; and

WHEREAS The Ohio State University and Children's Hospital, Inc. both have substantial research programs of a sponsored and non-sponsored nature that involve cooperative interrelationships between the two institutions; and

WHEREAS The Ohio State University desires to further strengthen the relationships between Children's Hospital, Inc. and the University; and

April 7 and 8, 1988 meeting, Board of Trustees

**AGREEMENT BETWEEN THE OHIO STATE UNIVERSITY
AND CHILDREN'S HOSPITAL, INC. (contd)**

WHEREAS it is in the best interests of The Ohio State University to enter into an agreement between The Ohio State University and Children's Hospital, Inc. to govern the administration of sponsored and non-sponsored programs:

NOW THEREFORE

BE IT RESOLVED, That the President and/or Vice President for Business and Administration be authorized, on behalf of the University, to execute an agreement between The Ohio State University and Children's Hospital, Inc. for administration of sponsored and non-sponsored programs on terms and conditions that the President or Vice President for Business and Administration determines to be in the best interests of the University.

Upon motion of Mr. Barone, seconded by Mr. Berry, the Board of Trustees adopted the foregoing resolution by unanimous roll call vote.

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REPORT - UNIVERSITY'S INVESTMENT PORTFOLIO

Resolution No. 88-115

RESOLVED, That the report on the University's Investment Portfolio, dated March 18, 1988, as submitted to the Fiscal Affairs Committee of the Board of Trustees, be received and filed with the official records of the Board.

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Thereupon the Board adjourned to meet Wednesday, May 4, 1988, at The Ohio State University Fawcett Center for Tomorrow, Columbus, Ohio, at 6:30 p.m.

Attest:

Madison H. Scott
Secretary

Edmund C. Redman
Chairman

THE OHIO STATE UNIVERSITY
OFFICIAL PROCEEDINGS OF THE
ONE THOUSAND TWO HUNDRED AND FORTY-FIRST MEETING
OF THE BOARD OF TRUSTEES

Columbus, Ohio, May 4 and 5, 1988

The Board of Trustees met at its regular monthly meeting on Wednesday, May 4, and Thursday, May 5, 1988, at The Ohio State University Fawcett Center for Tomorrow, Columbus, Ohio, pursuant to adjournment.

* * *
Minutes of the last meeting were approved.
* * *

May 4 and 5, 1988 meeting, Board of Trustees

The Chairman, Mr. Redman, called the meeting of the Board of Trustees to order on May 4, 1988, at 6:30 p.m. He requested the Secretary to call the roll.

Present: Edmund C. Redman, Chairman, Leonard J. Immke, John W. Berry, Shirley D. Bowser, Hamilton J. Teaford, John J. Barone, Deborah E. Casto, John W. Kessler, and Milton A. Wolf.

The meeting recessed into Executive Session for the purpose of considering legal issues and personnel actions as follows: faculty/staff appointments and reappointments, resignations and terminations, leaves of absence without salary, professional improvement leaves, emeritus titles, and medical staff appointments.

Upon motion of Mr. Immke, seconded by Mr. Berry.

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Mr. Redman reconvened the meeting on May 5, 1988, at 9:50 a.m.

Present: Edmund C. Redman, Chairman, Leonard J. Immke, John W. Berry, Shirley D. Bowser, Hamilton J. Teaford, John J. Barone, Deborah E. Casto, John W. Kessler, and Milton A. Wolf.

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Mr. Redman:

I would like to have Dr. Frank Hale, Vice Provost for Minority Affairs, make a presentation to the Board.

Dr. Frank Hale:

Chairman, Members of the Board, and audience in the room, I wanted to come today to provide you with an update on the activities of the Office of Minority Affairs. First of all, I would like to express my appreciation to you for your leadership and support in terms of affirmative action and minority programming that has taken place over the years at this University. I want to give specific reference and appreciation to the leadership as designated by our own President, Ed Jennings, who has taken a very strong position through the years in giving support to our office. And, most recently, to the Action Plan which has obviously been global, in terms of its impact both on this campus and throughout the United States.

We are pleased that not only the University, but so many of our sister institutions around the country have been delighted with the step that we have taken. It is a courageous step that has caused many of them to take various aspects of our program and extrapolate to the extent that they can't meet their own needs. We are called upon, many of us on this campus, from time to time, to give some indication of the steps that we have taken. Many universities not having the initiatives already in place on their campuses have really borrowed from us, and in a sense that has made our job more difficult as they have attempted to achieve parity.

May 4 and 5, 1988 meeting, Board of Trustees

Dr. Hale: (contd)

Just to give you a recent overview of some of the things that we are doing -- we would like to indicate that we have been very active around the State. In fact, we have been invited in by the superintendents, senior high school principals, and counselors in the major metropolitan areas throughout the State of Ohio to let them know about what we are doing on our campus. They have been very effective in the sense that they have called upon the various high schools around the State to invite us in and to provide a model. This model is very different from the traditional model of two or three recruiters going into the schools, placing the catalogue before the students and just saying "come." In many instances in the past when we have written to these high schools, they have placed our announcements on bulletin boards and students may or may not have been aware of the fact of our coming. It has not been uncommon for us to go to high schools with very high concentrations of minority students only to discover that four or five had been notified.

What we are doing now is having student receptions in high schools where we have 50% or more minority students. We have been meeting with 50 to 125 students at a time -- meeting at a time that is convenient for them and their particular counselors. Sometimes we go in the morning and have a continental breakfast or something of the sort and sit down and spend about an hour. We take with us our staff, our Director of the Freshman Foundation Program, our Director of the Minority Scholars Program, 2 or 3 academic counselors, and some students who are graduates of the particular high school we are attending. We have found that the results have been gratifying. In fact, our application rate is 28% above what it was this time last year. Our acceptance rate is much higher than it was last year. So what we are saying is, that the Action Plan is not only in place on paper, but as Ramseyer used to say "we are cutting through the paper." We are really getting some implementation going there.

The other thing that we would like to bring to your attention is that we noticed in 1980 that at this institution, as far as top minority scholars were concerned, it was extremely difficult for us to attract them. We had 80 national merit semi-finalists and of those 80 only four remained in the State of Ohio, and only one of those four came to The Ohio State University. As a result, with your support and your encouragement, we established what we called a Minority Scholars Program in 1982. It began with a pilot effort right here in downtown Columbus, with the sixteen public high schools. We were able to offer 21 of our top, brightest students scholarships to come here at the level of \$1,000 a year. These are students who had completed the college preparatory curriculum and had a 3.0 average, B average or above. That program has since evolved to the point that the following year we brought in 45 students, the next year 60 students, 85, and as of this year we brought in 130 of those students. We anticipate that this September we will have 175 of those students.

May 4 and 5, 1988 meeting, Board of Trustees

Dr. Hale: (contd)

What has really excited us is the fact that we have already engaged five of the top scholars right here in Columbus and Franklin County. Those students were able to meet with the President the day before yesterday -- the number one students at Briggs, Independence, Columbus Alternative, and Brookhaven, and the number two student at Dublin High School. All of these students rank at the very highest levels -- 3.75 and above and scoring at the level of 26 and above on the ACT. We think this is extremely remarkable. It is like going out and getting the top recruits in football. We have, in fact, landed a coup getting the very top students for The Ohio State University this coming year. We want to thank you for creating the kind of atmosphere that lets people know that we mean business at The Ohio State University with respect to affirmative action.

We have two other programs that we think in the long run, over and beyond the Young Scholars Program, are going to provide us with the foundation to attract more and more better students. We had, as you know, in October 1985 a community forum on this campus in which we invited the Vice President for the College Board to come to our campus, Adrienne Bailey. And what we were doing at that time was evaluating the report, "Equality and Excellence: The Educational Status of Black Americans." In that report we noted that most black students are tracked into vocational areas in the high schools and have not taken the kind of academic content courses -- the science courses, the technical courses -- that would make them competitive. We said we wanted to do something about that in Columbus and Franklin County. And what we did was to invite a team of persons from 42 schools in Columbus -- sixteen high schools and twenty-six middle schools -- an administrator, a high school counselor, a teacher of math, a teacher of english, and a parent representative; a team of five from each of those 42 schools. And to show you the kind of support that we have from the Columbus Public Schools, they granted those 210 persons a full day leave so that they could come out here and interact with our people in the English Department, and in the Math Department, and in other departments throughout the University.

As a result of that, we have established a College Readiness Program on our campus, in which we provide offices over in Scott Hall for two personnel from the Columbus Public Schools. All through the year now students are being shuttled in and out of this University so that our departments and colleges can "show and tell" what the possibilities are for the future. Along with that, beginning this summer, we will have an early-bird program that has been funded by the Affirmative Action Grant Program at this University. We will be inviting 142 middle school students from the eight middle schools that are contiguous with to The Ohio State University in the northeast/northwest quadrants. We know that if we capture these students early enough, it is going to make a difference, and in the future we will not have to pine because of the fact that only 26% of black high school students are enrolling in college -- many for financial reasons, but many more because they have been inadequately prepared.

May 4 and 5, 1988 meeting, Board of Trustees

Dr. Hale: (contd)

So we are pleased that we have the kind of collaboration that is going on between Ohio State University, the Columbus Public School system, and other school systems throughout the state. We know that this could not have been done without your support and without your help. And because of that fact, we wanted to acknowledge that support, express appreciation for it, and give you an update in terms of what is going on. Thank you very much.

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**ELECTION OF OFFICERS
BOARD OF TRUSTEES**

Resolution No. 88-116

Mr. Scott read the Nominating Committee's report in which the following slate of officers were recommended:

WHEREAS pursuant to paragraph (B) of rule 3335-1-02 of the Administrative Code, the officers of the Board are to be elected at the May meeting to take office immediately following adjournment of the meeting (May 5, 1988) and shall hold their office through the May 1989 meeting:

NOW THEREFORE

BE IT RESOLVED, That the following slate of officers for 1988-89 be elected:

Leonard J. Immke, Chairman

John W. Berry, Vice Chairman

Madison H. Scott, Secretary

James L. Nichols, Treasurer

Upon motion of Mr. Kessler, seconded by Mr. Teafor, the Board of Trustees adopted the foregoing resolution by unanimous roll call vote.

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Mr. Redman:

I would now like to have the committee reports, and first the Research Foundation, Mr. Barone --

Mr. Barone:

Mr. Chairman, at this time I would like to read a short report of the Research Foundation, I believe you all have it.

The Research Foundation grants and contracts for the month of March 1988 are shown in the Board agenda book. There are 102 awards listed which provide a gross income of \$9.5 million.

May 4 and 5, 1988 meeting, Board of Trustees

Mr. Barone: (contd)

For the first nine months of the fiscal year (July 1, 1987 to March 31, 1988) we received 896 awards with a gross income of \$76 million. Last year at this time we had 792 awards with a gross income of \$63.8 million. This represents a 19 percent increase in funding for the nine month period.

The Federal sector increased significantly this month due largely to increased funding from the Department of Health and Human Services. Funding increases were also received from the State of Ohio and the Other Non-Federal sectors for the month of March 1988.

Some highlights of awards for March are:

- \$504,000 award from the National Institutes of Health to David J. Lim of the College of Medicine for continuation of research into inflammation of the middle ear.
- \$400,000 award from the Department of Education to Sheldon R. Simon of the Department of Surgery and colleagues in medicine and engineering to set up a rehabilitation engineering center for the study of human performance.
- \$194,000 award from the National Institutes of Health to Dean John M. Cassady of the College of Pharmacy for research on the natural inhibitors of cancer.
- \$50,000 award from the Ohio Air Quality Development Authority to Walter E. Carey of the Office of Radiation Safety to develop a course to train contractors in the correction of radon problems in homes.

These are some of the most interesting awards from the report. It shows an increase in the research department, but I think we should all be proud of the people that are doing it. Next month we will have our annual election of officers. That concludes my report, Mr. Chairman.

Mr. Redman:

Thank you, Mr. Barone. We would like to now have the Development Fund Board from Mr. Kessler.

Mr. Kessler:

No report.

Mr. Redman:

O.K. The University Hospitals Board --

Mrs. Bowser:

Yes, Mr. Chairman. You will have to bear with me while I read this. We met last Thursday and we used our new committee format. We all met simultaneously, so I wasn't in all the

May 4 and 5, 1988 meeting, Board of Trustees

Mrs. Bowser: (contd)

committee meetings. We now have three committees: the Professional Affairs Committee, the Administrative/Operations Committee, and the Strategic Planning Committee.

The Professional Affairs Committee reviewed the present Emergency Department admissions policy and learned that our new Risk Manager had joined the organization. We expect to receive a report from him in the next several months. Dr. Keller reported on our quality assurance activities in the Emergency Department and we learned of the need to improve centralization of patient records in both the Hospitals and Clinics. This is an area that will continue to be studied by the Medical Staff Administrative Committee as well as by the Board. Dr. Cornwell gave an overview of the College of Medicine research activities and we anticipate that this will be a regular agenda item for this Committee. We also learned of Dr. Balcerzak's application to the Board of Regents for funding for an Eminent Scholar grant in Cancer. We were quite impressed with the extent of the work that has been done in this regard, as well as his efforts to lead the grant team.

In the Administrative/Operations Committee it was reported by the Hospitals Administration that the Hospitals will finish the year close to budget projections and that we will receive the budget for 1988-89 at our May meeting. Mr. Ihrig gave a fine presentation on the University overhead assessments to the Hospitals. We were very appreciative of the summary he provided to the Committee. We received a report on our MedOhio facilities, similar to that which the Board of Trustees heard from Mr. Covert last month. The Committee discussed traffic and parking concerns at length, and asked that a study be jointly conducted by Mr. Jackson and Mr. Covert to identify ways to improve our efficiency on behalf of patients, visitors and employees.

The Strategic Planning Committee, of which I am a member, met and approved the Strategic Plan for the College of Medicine. You may remember we have been working on this for several years and it's now come to its finalized form. Also approved were a series of goals to be completed by the administration in 1988 and 1989, relative to implementation of the plan. I think that plan will be presented to the President and he in turn will present it to the Board of Trustees in the very near future.

Following the committee meetings the Hospitals Board met and we presented a formal resolution to Mr. Bill Hagler, who is a nephew of Mrs. Josephine Failer. We received a rendering from the Hospitals' administration on a new signage for the Failer Plaza in front of the Hospitals. You may remember that that Plaza was dedicated to Jo and, true to Jo's personality and form, she wanted very little designation. And the Hospitals Board feels now that they would like to make that a little bit more prominent, so we did have a rendering and that will be proceeding.

May 4 and 5, 1988 meeting, Board of Trustees

Mrs. Bowser: (contd)

I recommended that the Board members schedule a day-long seminar to allow time for reflection on stewardship responsibilities and optimal ways to carry them out. Mr. Covert has agreed to arrange for such a seminar, as well as for a joint meeting between the Hospitals Board and the Board of Trustees. That will be coming up, I suppose, in the next six weeks and I really urge you all to try to attend.

Submitted by Leonard J. Immke and Shirley D. Bowser.

Mr. Redman:

Does that complete your report, Mrs. Bowser?

Mrs. Bowser:

Yes, that's it.

Mr. Redman:

I might say that since I have been interested in the billing at the Hospitals Clinic we have moved to the point where Ernst and Whinney have made their first determination of the various practice plans. This was according to the new schedule and I hope that the Board will designate someone to foster the implementation of the plan which has now been agreed to. I have talked to Mike Covert and Dr. Tzagournis about the other side of the billing which is of the Hospitals services, separate from the physicians services. They are moving forward in that area with the idea of having a single bill for the Hospitals side. It would appear that for the moment there are no hurdles -- everybody has agreed to go ahead. There are some physicians who have reservations about the plan but are willing to cooperate. I think it is up to us to implement it and help the doctors anyway we can to get in installed.

Mrs. Bowser:

Mr. Chairman, I think you should be commended publicly for your interest in this area and I would say you probably moved that along about five years. That is your area of expertise and I think that those present should know that you handled it beautifully. And I except that challenge to see that it's on schedule.

Mr. Redman:

Very well. I think that is about all I can offer. Except to say that I've told the Committee that if I could be helpful, I will be glad to come back and help anyway I can to implement the darn thing.

Mr. Teaford:

Well, we'll tell them if they don't shape up, you're coming back. That will scare them.

May 4 and 5, 1988 meeting, Board of Trustees

Mr. Redman:

Jennings is glad enough to be rid of me now, he doesn't want me hanging around here. Have we anything else then, Mr. Secretary? Mr. President will you present your agenda.

Mr. Teafor:

Mr. Chairman, you have wanted a report from me on the Foundation Board for some time and I have one finally.

Mr. Redman:

O.K., Mr. Teafor. I'm surprised, but I am willing.

Mr. Teafor:

As you know, that Board only meets twice a year and so it gives me very little opportunity to report, but we did indeed meet last month. You have heard the report in terms of the money and how much has come in from Vice President Tobin. One of the things we discussed is what do we do when we hit the goal before the end. There was a good discussion on that, and I think you will soon find out what we will do.

The only other thing of interest was -- it is interesting to me that very little of the money that is being donated is actually in the Foundation. It is almost all coming into the University. The Foundation Board adopted a policy some time ago that until there is at least \$10 million there it would be invested as part of the University's portfolio. There is still only about \$4 million in their coffers, so that continues to be the way they do it. The officers were reelected at the last meeting as well.

Mr. Redman:

Do you find anything wrong with that, Mr. Teafor?

Mr. Teafor:

No, I like it as a matter of fact. That is my report, Mr. Chairman.

Mr. Redman:

Thank you. You are going to urge Mr. Tobin to speed up the contributions, I assume, so we will get our goal by the year end.

Mr. Teafor:

That's right.

Mr. Redman:

We don't want him to rest on his laurels.

May 4 and 5, 1988 meeting, Board of Trustees

Mr. Teaford:

That's right, that's right, no sitting back. He leaned forward when you said that.

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AMENDMENTS TO THE RULES OF THE UNIVERSITY FACULTY

Resolution No. 88-117

Synopsis: Amendments to rules 3335-5-452 and 3335-5-494 are being proposed.

WHEREAS the University Senate pursuant to rule 3335-1-09 of the Administrative Code is authorized to recommend through the President to the Board of Trustees the adoption of amendments to the Rules of the University Faculty as approved by the University Senate; and

WHEREAS the proposed changes in the Rules of the University Faculty were approved by the University Senate on April 9, 1988, as follows:

AMENDED RULES

3335-5-452 Secretary of the university senate.

- (A) Unchanged.
- (B) The responsibilities of the secretary of the university senate will be to:
 - (1) Unchanged.
 - (2) Unchanged.
 - (3) Serve as a voting member of the program committee and the rules committee, an ex officio, non-voting member of the steering committee of the university senate, and an ex officio member of the faculty advisory committee to the chancellor of the Ohio board of regents (FAC). (See Rule 3335-5-494 of the Administrative Code.)

Balance unchanged.

3335-5-494 Faculty advisory committee to the chancellor of the Ohio board of regents (FAC).

- (A) The university's representation to the FAC shall consist of two regular faculty members and the secretary of the university senate.
- (B) One faculty member shall be elected every two years, for a term of four years, commencing autumn quarter. During the first two years of the term the member shall be the representative-elect to the FAC. During the third and fourth years of the term, the member shall be the representative to the FAC. Faculty representatives will be eligible for re-election. The secretary of the university senate shall serve for the duration of the secretary's appointment.

May 4 and 5, 1988 meeting, Board of Trustees

AMENDMENTS TO THE RULES OF THE UNIVERSITY FACULTY (contd)

- (C) The representative-elect shall be nominated by the executive committee of the faculty council and elected by the faculty council. The ballot shall include at least one more name than there are positions to be filled and shall provide space for write-in votes. When an unexpired term becomes vacant, the vacancy shall be filled in a manner consonant with the original method of selection. A member selected to fill such a vacancy shall serve for the duration of the unexpired term.
- (D) The president shall report the names of the faculty representatives to the chancellor of the Ohio board of regents.
- (E) Unchanged.

NOW THEREFORE

BE IT RESOLVED, That the foregoing amendments to the Rules of the University Faculty be adopted as recommended by the University Senate.

Upon motion of Mr. Immke, seconded by Mr. Teaford, the Board of Trustees adopted the foregoing resolution by unanimous voice vote.

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DEGREES AND CERTIFICATES - SPRING QUARTER COMMENCEMENT

Resolution No. 88-118

Synopsis: Approval is being requested for awarding degrees and certificates for Spring Quarter Commencement.

WHEREAS pursuant to paragraph (E) of rule 3335-1-06 of the Administrative Code, the Board has authority for the issuance of degrees and certificates; and

WHEREAS the faculties of the colleges and schools shall transmit, in accordance with rule 3335-9-29 of the Administrative Code, for approval by the Board of Trustees the names of persons who have completed degree and certificate requirements:

NOW THEREFORE

BE IT RESOLVED, That the degrees and certificates be conferred on June 10, 1988, to those persons who have completed the requirements for their respective degrees and certificates and are recommended by the colleges and schools, and that the names of those persons awarded degrees and certificates be included in the minutes of this meeting.

Upon motion of Ms. Casto, seconded by Mr. Teaford, the Board of Trustees adopted the foregoing resolution by unanimous voice vote.

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May 4 and 5, 1988 meeting, Board of Trustees

PERSONNEL ACTIONS

Resolution No. 88-119

RESOLVED, That the personnel actions as recorded in the Personnel Budget Records of the University since the April 8, 1988 meeting of the Board, including the following Appointments, Appointment of Chairperson of Academic Faculty, Reappointment of Chairpersons of Departments, Leave of Absence Without Salary, Leave of Absence Without Salary--Change of Dates, Professional Improvement Leaves, Professional Improvement Leave--Cancellation, and Emeritus Titles as detailed in the University Budget be approved, and the Medical Staff Appointments approved March 31, 1988, by the Hospitals Board be ratified.

Appointments

Name: HOWARD P. FINK
Title: Professor (The Isadore and Ida Topper Professorship in Law)
College: Law
Effective: August 16, 1988
Salary: \$88,440.00
Present Position: Professor (The Joseph S. Platt-Porter, Wright, Morris, and Arthur Professorship in Law Fund)

Name: JOHN C. HUNTINGTON
Title: Professor (The Bliss M. and Mildred A. Wiant Designated Professorship in Chinese Literature and Culture)
Department: History of Art
Effective: October 1, 1988
Salary: \$47,520.00
Present Position: Professor, Department of History of Art

Name: LEE M. MODJESKA
Title: Professor (The Joseph S. Platt-Porter, Wright, Morris, and Arthur Professorship in Law Fund)
College: Law
Effective: August 16, 1988
Salary: \$80,880.00
Present Position: Professor, College of Law

Name: KENNETH G. WILSON
Title: Professor (Hazel C. Youngberg Trustees Distinguished Professorship)
Department: Physics
Effective: August 1, 1988
Salary: \$133,320.00
Present Position: Professor, Cornell Theory Center, Cornell University, Ithaca, NY

Appointment of Chairperson of Academic Faculty

July 1, 1988 through September 30, 1992

Management Sciences

David Schilling

May 4 and 5, 1988 meeting, Board of Trustees

PERSONNEL ACTIONS (contd)

Reappointment of Chairpersons of Departments

July 1, 1988 through June 30, 1992

Geology and Mineralogy

Peter N. Webb

October 1, 1988 through September 30, 1992

Geodetic Science and Surveying

Ivan I. Mueller

Leave of Absence Without Salary

RICHARD W. BURROWS, Assistant Professor, Department of Dance, effective Spring Quarter 1988, to continue his work as a free-lance artist.

Leave of Absence Without Salary--Change of Dates

GALAL L. WALKER, Assistant Professor, Department of East Asian Languages and Literatures, change leave from Autumn Quarter 1987 and Winter Quarter 1988, to Autumn Quarter 1987 and Spring Quarter 1988.

Professional Improvement Leaves

TIM M. BERRA, Professor, Department of Zoology (Mansfield Campus), effective Autumn Quarter 1988, Winter Quarter and Spring Quarter 1989.

GORDON M. CLARK, Professor, Department of Industrial and Systems Engineering, effective Autumn Quarter 1988, Winter Quarter and Spring Quarter 1989.

DEREK HORTON, Professor, Department of Chemistry, effective Autumn Quarter 1988 and Winter Quarter 1989.

EDWARD J. KANE, Professor, Department of Economics and Academic Faculty of Finance, effective Autumn Quarter 1988, Winter Quarter, Spring Quarter and Summer Quarter 1989.

GARY L. KINZEL, Professor, Department of Mechanical Engineering, effective Autumn Quarter 1988, Winter Quarter and Spring Quarter 1989.

P. JOHN KOZYRIS, Professor, College of Law, effective Autumn Semester 1988, and Spring Semester 1989.

PETER A. MAGARO, Professor, Department of Psychology, effective Autumn Quarter 1988, Winter Quarter and Spring Quarter 1989.

PATRICK C. MCKENRY, Professor, Department of Family Relations and Human Development, effective September 1, 1988 through June 8, 1989.

JAMES E. MEEKS, Professor, College of Law, effective Autumn Semester 1988.

HOWARD A. I. NEWMAN, Professor, Department of Pathology, effective September 1, 1988 through August 31, 1989.

JOHN C. RULE, Professor, Department of History, effective Autumn Quarter 1988, Winter Quarter and Spring Quarter 1989.

May 4 and 5, 1988 meeting, Board of Trustees

PERSONNEL ACTIONS (contd)

Professional Improvement Leaves (contd)

PATRICIA M. SCHWIRIAN, Professor, Department of Family and Community, effective Autumn Quarter 1988, Winter Quarter and Spring Quarter 1989.

WILLIAM M. SUMNER, Professor, Department of Anthropology, effective Autumn Quarter 1988, Winter Quarter and Spring Quarter 1989.

WALTER C. SWEET, Professor, Department of Geology and Mineralogy, effective Autumn Quarter 1988, Winter Quarter and Spring Quarter 1989.

STEPHEN R. ACKER, Associate Professor, Department of Communication, effective Autumn Quarter 1988, Winter Quarter and Spring Quarter 1989.

RICHARD R. CENTING, Associate Professor, University Libraries, effective July 5, 1988 through October 3, 1988.

PETER L. CHESSON, Associate Professor, Department of Zoology, effective Autumn Quarter 1988, Winter Quarter and Spring Quarter 1989.

SUZANNE K. DAMARIN, Associate Professor, Department of Educational Policy and Leadership, effective Autumn Quarter 1988, Winter Quarter and Spring Quarter 1989.

JOSEPH F. DASTA, Associate Professor, College of Pharmacy, effective June 20, 1988 through June 19, 1989.

J. ERIC JUTERBOCK, Associate Professor, Department of Zoology (Lima Campus), effective Autumn Quarter 1988, Winter Quarter and Spring Quarter 1989.

JAY S. KIM, Associate Professor, Academic Faculty of Management and Human Resources, effective Autumn Quarter 1988, Winter Quarter and Spring Quarter 1989.

ELIZABETH G. MENAGHAN, Associate Professor, Department of Sociology, effective Autumn Quarter 1988, Winter Quarter and Spring Quarter 1989.

WILLIAM F. OGDEN, Associate Professor, Department of Computer and Information Science, effective Autumn Quarter 1988, Winter Quarter and Spring Quarter 1989.

LEROY PERNELL, Associate Professor, College of Law, effective Autumn Semester 1988.

RICHARD ROTH, Associate Professor, Department of Art, effective Autumn Quarter 1988, Winter Quarter and Spring Quarter 1989.

JAMES E. SCHULTZ, Associate Professor, Department of Mathematics, effective Autumn Quarter 1988, Winter Quarter and Spring Quarter 1989.

ROBERT J. STANTON, Associate Professor, Department of Mathematics, effective Autumn Quarter 1988, Winter Quarter and Spring Quarter 1989.

DONALD A. SYLVAN, Associate Professor, Department of Political Science, effective Autumn Quarter 1988, Winter Quarter and Spring Quarter 1989.

May 4 and 5, 1988 meeting, Board of Trustees

PERSONNEL ACTIONS (contd)

Professional Improvement Leaves (contd)

KAMBIZ VAFAI, Associate Professor, Department of Mechanical Engineering, effective Autumn Quarter 1988, Winter Quarter and Spring Quarter 1989.

GIFFORD WEARY, Associate Professor, Department of Psychology, effective Autumn Quarter 1988, Winter Quarter and Spring Quarter 1989.

STUART H. ZWEBEN, Associate Professor, Department of Computer and Information Science, effective Autumn Quarter 1988, Winter Quarter and Spring Quarter 1989.

DIANNE L. ALMENDINGER, Assistant Professor, Department of Art (Mansfield Campus), effective Autumn Quarter 1988, Winter Quarter and Spring Quarter 1989.

DAPHNE C. HSUEH, Assistant Professor, University Libraries, effective August 15, 1988 through June 15, 1989.

IONIA M. ZELENSKA, Assistant Professor, Department of Theatre, effective Autumn Quarter 1988, Winter Quarter and Spring Quarter 1989.

Professional Improvement Leave--Cancellation

GRADY W. CHISM III, Associate Professor, Department of Food Science and Nutrition, effective Autumn Quarter 1988 and Winter Quarter 1989.

Emeritus Titles

CHARLES E. HERDENDORF, Department of Zoology, with the title Professor Emeritus, effective April 1, 1988.

CURT LEBEN, Department of Plant Pathology, with the title Professor Emeritus, effective May 1, 1988.

MARY M. ANDRIAN, Department of Home Economics Education, with the title Assistant Professor Emeritus, effective May 1, 1988.

PATSY L. GLASS, Cooperative Extension Service, with the title Assistant Professor Emeritus, effective May 1, 1988.

MARGARET A. HOSTETLER, Cooperative Extension Service, with the title Assistant Professor Emeritus, effective May 1, 1988.

Upon motion of Amb. Wolf, seconded by Mr. Immke, the Board of Trustees adopted the foregoing resolution by unanimous roll call vote.

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RESOLUTION IN MEMORIAM

Resolution No. 88-120

Synopsis: A resolution honoring the service of one of the University's faculty members who has recently died is being proposed.

May 4 and 5, 1988 meeting, Board of Trustees

RESOLUTION IN MEMORIAM (contd)

RESOLVED, That the Board adopt the following Resolution in Memoriam and that the President be requested to convey a copy to the family of the deceased.

Ross L. Mooney

The Board of Trustees of The Ohio State University expresses its sorrow upon the death on February 7, 1988, of Dr. Ross L. Mooney, Professor Emeritus in the Department of Educational Policy and Leadership.

Born on April 17, 1906, Dr. Mooney attended public schools in Lebanon, Ohio. He later received his A.B. from Miami University in 1929, and his Ph.D. from Yale University in 1935. He was appointed Assistant Professor and Research Associate to the Bureau of Educational Research at The Ohio State University in 1938, where he did research in the college personnel field. He served as Acting Junior Dean (personnel officer) and Acting Dean of the College of Education during 1944-45. He was appointed Professor and Research Associate of the Bureau of Educational Research in 1946 and did research on education as a creative enterprise. Dr. Mooney was appointed Coordinator of Research in the College of Education at The Ohio State University from 1957-60 where he developed research programs in education, psychology, music, and fine arts. He returned to the Bureau of Educational Research and Service in 1960, and remained until 1965 when the Bureau was dissolved into the School of Education. Upon his retirement in 1975, he was named Professor Emeritus.

In the Americans Abroad Program of the U.S. Department of State, Dr. Mooney served as consultant to The Henrietta Szold Institute (an agency for research and development in education) in Jerusalem, Israel. He was a member of the NDEA Guidance Institute staff at the University of Maine during the summers of 1961, 1962, 1966, and 1967. He was also a consultant to the Engineer Research and Development Laboratories, Army Corps of Engineers in the summer of 1956. He had been the major participant and lecturer in nationally sponsored workshops by the Council for Advancement of Small Colleges (1965); Phi Delta Kappa (1964); U.S. Office of Education (1964); University Council for Educational Administration (1961); Carnegie Corporation (1962); and the National Science Foundation (1957). Also, with similar services to universities such as: MIT, Stanford, Chicago, North Carolina, Syracuse, Pennsylvania State, and Harvard.

Dr. Mooney wrote numerous publications in the personnel and guidance field (e.g., Mooney Problem Check Lists); in educational administration (e.g., "The Problem of Leadership in the University," Harvard Educational Review, Winter 1963); and in the field of "education as a creative enterprise" (most recently, with Taher Razik, Explorations in Creativity, Harper & Row, Publishers, 1967).

At the June 1973 Commencement, Dr. Mooney received the University's Distinguished Teaching Award. In recent years, he continued to work with graduate students and colleagues in an active role as Professor Emeritus.

On behalf of the University community, the Board of Trustees expresses to the family its deepest sympathy. It was directed that this resolution be inscribed upon the minutes of the Board of Trustees and that a copy be tendered to the family as an expression of the Board's heartfelt sympathy.

May 4 and 5, 1988 meeting, Board of Trustees

RESOLUTION IN MEMORIAM (contd)

Upon motion of Mr. Berry, seconded by Mr. Teaford, the Board of Trustees adopted the foregoing resolution by unanimous voice vote.

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REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS

Resolution No. 88-121

Synopsis: The reports on contracts, grants, and gifts and the summary for March 1988 are presented for Board acceptance.

WHEREAS monies are solicited and received on behalf of the University from governmental, industrial, other agencies, alumni, and various individuals in support of research, instructional activities, and service; and

WHEREAS such gifts and grants are received through The Ohio State University Research Foundation, the Engineering Experiment Station of The Ohio State University, and The Ohio State University Development Fund:

NOW THEREFORE

BE IT RESOLVED, That the research agreement between The Ohio State University and The Ohio State University Research Foundation for the contracts and grants reported herein, and the acceptance of the reports from the Engineering Experiment Station and The Ohio State University Development Fund during the month of March 1988 be approved.

Upon motion of Mr. Immke, seconded by Mr. Teaford, the Board of Trustees adopted the foregoing resolution by unanimous voice vote.

SUMMARY FOR MARCH 1988

Source	No. of Projects	Support Level
The Ohio State University Research Foundation	102	\$9,504,451.24
Engineering Experiment Station	61	\$ 452,271.00
Total	163	\$9,956,722.24

The Ohio State University Development Fund

Establishment of Named Funds

The Henry G. Cramblett Fund in Medicine (To establish an endowed chair)	\$ 500,000.00
The Lawrence D. Jones Scholarship Fund (Scholarships - engineering majors)	\$ 40,000.00

May 4 and 5, 1988 meeting, Board of Trustees

REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)

SUMMARY FOR MARCH 1988 (contd)

The Ohio State University Development Fund (contd)

Establishment of Named Funds (contd)

The John H. and Mabel D. Herrick Fund (College of Education - to support projects designed to attract and hold competent faculty and staff members)	\$ 30,400.00
Bogner Endowment Fund (Scholarships - construction technology program at ATI)	\$ 25,000.00
Feibel Lecture Fund (Sponsor an annual community lecture on Judaism and law)	\$ 15,000.00

Change of Name and Description of Named Funds

From:	The Milton Caniff Research Room Fund
To:	Milton Caniff Endowment Fund
From:	Hazel C. Youngberg Memorial Fund
To:	The Hazel C. Youngberg Trustees Distinguished Professorship

Recision of Named Fund

The Frank E. and Harriet E. Hedrick Aviation Student Award Fund
(Converted to a current use account upon the request of The Hedrick
Foundation.)

REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (cont'd)

The Ohio State University Campaign Progress Report @ March 31, 1988						
	*Campaign Expectancies	Current Year Campaign Receipts (Jul 87-Mar 88)	Previous Years' Campaign Receipts As of June 30, 1987	Total	Campaign Goal	% Achieved
Alumni	\$66,058,318	\$7,372,265	\$27,516,929	\$100,947,512	\$122,500,000	82
Friends	34,974,485	5,564,945	20,800,770	61,340,200	70,000,000	88
**Corporations	12,477,360	9,780,692	66,838,006	89,096,058	122,500,000	73
Foundations	<u>2,898,000</u>	<u>7,680,563</u>	<u>8,925,528</u>	<u>19,504,091</u>	<u>35,000,000</u>	56
Totals	\$116,408,163	\$30,398,465	\$124,081,233	\$270,887,861	\$350,000,000	77

*Defined as pledges and deferred commitments less payments already received.

**Corporations, businesses, associations and private agencies.

THE OHIO STATE UNIVERSITY
OFFICE OF UNIVERSITY DEVELOPMENT
OSU FOUNDATION & DEVELOPMENT FUND RECEIPTS

July-March
1986-87 Compared to 1987-88

GIFT RECEIPTS BY DONOR TYPE

	<u>July</u> <u>1986-87</u>	<u>Donors</u> <u>through March</u> <u>1987-88</u>	<u>% Change</u>	<u>1986-87</u>	<u>Dollars</u> <u>July through March</u> <u>1987-88</u>	<u>% Change</u>
Alumni	40,644	39,525	(3)	\$12,538,558	\$7,372,265	(41)
Non Alumni	19,184	17,967	(6)	8,214,046	5,564,945	(32)
Corporations	1,363	1,687	24	7,550,754	6,370,378	(16)
Corporate Foundations	239	235	(2)	1,507,234	1,439,672	(4)
Private Foundations	110	128	16	2,425,416	7,680,563	217
Other	<u>552</u>	<u>1,002</u>	82	<u>1,975,129</u>	<u>1,970,642</u>	-
TOTAL	62,092	60,544	(2)	\$34,211,137	\$30,398,465	(11)

REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (cont'd)

May 4 and 5, 1988 meeting, Board of Trustees

May 4 and 5, 1988 meeting, Board of Trustees

REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)

THE OHIO STATE UNIVERSITY RESEARCH FOUNDATION

Report - March 1988

Federal Research Contracts/Grants

\$1,061,400.00 - Department of Energy, Argonne, Illinois, High Energy Physics, Department of Physics (High Energy Physics Group: S. Durkin, H. P. Kagan, R. D. Kass, K. D. Lane, T. Y. Ling, A. J. Niemi, W. F. Palmer, S. S. Pinsky, N. W. Reay, K. Reibel, T. A. Romanowski, J. Shigemitsu, R. A. Sidwell, N. R. Stanton, G. Steigman, K. Tanaka, and W. W. Wada), 1 May 1988 through 15 November 1988. (Project 762116 - Continuation)

\$965,531.00 - Department of Health and Human Services, Public Health Service, National Institutes of Health, Bethesda, Maryland, General Clinical Research Center, College of Medicine - Administration (M. Tzagournis) and Department of Internal Medicine (W. Malarkey), 1 April 1988 through 30 November 1988. (Project 761196 - Continuation)

\$503,576.00 - Department of Health and Human Services, Public Health Service, National Institutes of Health, Bethesda, Maryland, Otitis Media with Effusion: Human Studies, Department of Otolaryngology (D. J. Lim), 1 December 1987 through 30 November 1988. (Project 760043 - Continuation)

\$400,000.00 - Department of Education, Washington, D.C., Rehabilitation Engineering Center for the Quantification of Human Performance, Department of Surgery (S. R. Simon), Department of Preventive Medicine (W. S. Pease), Department of Industrial and Systems Engineering (P. J. Smith and W. S. Marras), and Department of Electrical Engineering (H. N. Hemami), 1 February 1988 through 31 January 1989. (Project 766622 - New)

\$344,701.00 - Department of Health and Human Services, Public Health Service, National Institutes of Health, Bethesda, Maryland, Cooperative Human Tissue Network, Comprehensive Cancer Center and Department of Pathology (K. Clausen) and Comprehensive Cancer Center and Department of Physiological Chemistry (R. W. Trewyn), 1 January 1988 through 31 December 1988. (Project 765857 - Continuation)

\$332,557.00 - Department of Health and Human Services, Public Health Service, National Institutes of Health, Bethesda, Maryland, Pathobiological Determinants of Atherosclerosis in Youth, Department of Surgery (J. F. Cornhill), 1 March 1988 through 28 February 1989. (Project 764727 - Continuation)

\$278,490.00 - Department of Health and Human Services, Public Health Service, Health Resources and Services Administration, Rockville, Maryland, Proposal for Doctoral Program: The Ohio State University Advanced Nurse Training Grant, Department of Family and Community Nursing (E. M. Menke), 1 March 1988 through 28 February 1989. (Project 764615 - Continuation)

\$240,910.00 - Department of Health and Human Services, Public Health Service, Alcohol, Drug Abuse and Mental Health Administration, Bethesda, Maryland, Caregivers of AD Victims: Stress and Mental Health, Department of Psychiatry (J. Klecolt-Glaser) and Department of Microbiology and

May 4 and 5, 1988 meeting, Board of Trustees

REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)

THE OHIO STATE UNIVERSITY RESEARCH FOUNDATION (contd)

Federal Research Contracts/Grants (contd)

Immunology (M. R. Glaser), 1 April 1988 through 31 March 1989. (Project 765958 - Continuation)

\$240,000.00 - Department of Health and Human Services, Public Health Service, National Institutes of Health, Bethesda, Maryland, Multi-User Application for an Electron Microscope, Department of Anatomy (R. W. Burry), 29 February 1988 through 28 February 1989. (Project 766623 - New)

\$193,682.00 - Department of Health and Human Services, Public Health Service, National Institutes of Health, Bethesda, Maryland, Chemistry of Novel Natural Inhibitors of Carcinogenesis, College of Pharmacy (J. M. Cassady), 1 April 1988 through 31 March 1989. (Project 766665 - New)

\$185,187.00 - Department of Health and Human Services, Public Health Service, National Institutes of Health, Bethesda, Maryland, RNA Splicing in Neurospora Mitochondria, Department of Molecular Genetics (A. M. Lambowitz), 1 April 1988 through 31 March 1989. (Project 765596 - Continuation)

\$165,452.00 - Department of Health and Human Services, Public Health Service, National Institutes of Health, Bethesda, Maryland, Synthesis of Biologically Important Carbohydrates, Department of Chemistry (D. Horton), 1 February 1988 through 31 January 1989. (Project 760025 - Continuation)

\$159,990.00 - Department of Health and Human Services, Public Health Service, National Institutes of Health, Bethesda, Maryland, Synthesis of Unusual Biologically Active Terpenes, Department of Chemistry (L. A. Paquette), 1 April 1988 through 31 March 1989. (Project 763497 - Continuation)

\$158,555.00 - Department of Health and Human Services, Public Health Service, National Institutes of Health, Bethesda, Maryland, Cardiopulmonary Actions -- Trimetoquinol Analogs, College of Pharmacy (D. D. Miller and D. R. Feller), 1 April 1988 through 31 March 1989. (Project 761574 - Continuation)

\$157,997.00 - Department of Health and Human Services, Public Health Service, National Institutes of Health, Bethesda, Maryland, Neural Control of Human Intestinal Mucosa, Department of Physiology (H. J. Cooke), 1 April 1988 through 31 December 1988. (Project 765037 - Continuation)

\$153,286.00 - Department of Health and Human Services, Public Health Service, National Institutes of Health, Bethesda, Maryland, Pre- and Post-Operative T-Cell Function, Department of Surgery (R. M. Ferguson), 1 January 1988 through 31 January 1989. (Project 766505 - New)

\$138,543.00 - Department of Health and Human Services, Public Health Service, National Institutes of Health, Bethesda, Maryland, Mechanistic Studies of Xanthine Oxidase, Department of Physiological Chemistry (C. R. Hille), 1 April 1988 through 31 March 1989. (Project 766661 - New)

May 4 and 5, 1988 meeting, Board of Trustees

REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)

THE OHIO STATE UNIVERSITY RESEARCH FOUNDATION (contd)

Federal Research Contracts/Grants (contd)

\$137,804.00 - Environmental Protection Agency, Washington, D.C., Fate of DNA Damage in Human Fetal Cells, Department of Radiology (S. M. D'Ambrosio and A. A. Wani), 1 May 1988 through 30 April 1989. (Project 763308 - Continuation)

\$131,000.00 - National Science Foundation, Washington, D.C., Liquid and Solid Helium at Very Low Temperatures, Department of Physics (D. O. Edwards), 1 April 1988 through 30 September 1989. (Project 764034 - Continuation)

\$125,684.00 - Department of Health and Human Services, Public Health Service, National Institutes of Health, Bethesda, Maryland, Ia Expression by Macrophages from Bcg^r and Bcg^s Mice, Department of Microbiology (B. S. Zwilling), 1 April 1988 through 31 March 1989. (Project 765985 - Continuation)

\$123,728.00 - Department of Health and Human Services, Public Health Service, National Institutes of Health, Bethesda, Maryland, Cellular Mechanisms of Human Immunosenescence, Department of Internal Medicine (R. Whisler), 1 March 1988 through 28 February 1989. (Project 763761 - Continuation)

\$114,295.00 - Department of the Air Force, Air Force Systems Command, Bolling Air Force Base, D.C., Mechanisms of Chemical Modulation Toxicity of the Immune System, Department of Veterinary Pathobiology (M. J. Tarr and R. G. Olsen), 15 April 1986 through 14 April 1989. (Project 765335 - Continuation)

\$111,400.00 - National Science Foundation, Washington, D.C., Mechanisms of Polycrystalline Strain Propagation: Controlled Orientations and Applied Stress Fields, Department of Metallurgical Engineering (W. A. T. Clark and R. H. Wagoner), 1 January 1988 through 31 December 1988. (Project 765832 - Continuation)

\$108,034.00 - Department of Health and Human Services, Public Health Service, National Institutes of Health, Bethesda, Maryland, Oral Tolerance in Allergic Encephalomyelitis, Department of Microbiology and Immunology (C. C. Whitacre), 1 April 1988 through 31 March 1989. (Project 765266 - Continuation)

\$107,262.00 - Department of Health and Human Services, Public Health Service, National Institutes of Health, Bethesda, Maryland, Human Thrombin: Binding and Recognition Sites, Department of Chemistry (L. J. Berliner), 1 February 1988 through 31 January 1989. (Project 761742 - Continuation)

\$100,100.00 - National Science Foundation, Washington, D.C., Basic Mechanisms of Sliding Friction and Wear, Department of Metallurgical Engineering (D. A. Rigney), 15 March 1988 through 14 February 1989. (Project 766644 - Continuation)

May 4 and 5, 1988 meeting, Board of Trustees

REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)

THE OHIO STATE UNIVERSITY RESEARCH FOUNDATION (contd)

Federal Research Contracts/Grants (contd)

\$94,387.00 - Department of Health and Human Services, Public Health Service, National Institutes of Health, Bethesda, Maryland, Biomimetic Metal Complexes of Macrocyclic Ligands, Department of Chemistry (D. H. Busch), 1 December 1987 through 30 November 1988. (Project 761501 - Continuation)

\$91,842.00 - Department of Health and Human Services, Public Health Service, National Institutes of Health, Bethesda, Maryland, Energetics of Contraction in Single Muscle Cells, Department of Physiology (J. A. Rall), 1 April 1988 through 31 March 1989. (Project 760993 - Continuation)

\$89,316.00 - Department of Health and Human Services, Public Health Service, National Institutes of Health, Bethesda, Maryland, Intestinal Function in a Hibernator: Adaptive Changes, Department of Physiology (H. V. Carey), 1 March 1988 through 31 December 1988. (Project 766634 - New)

\$86,852.00 - Department of Health and Human Services, Public Health Service, National Institutes of Health, Bethesda, Maryland, Structure of Ribosomal 5S RNA and 5.8S RNA, Department of Chemistry (A. G. Marshall), 1 January 1988 through 31 December 1988. (Project 762523 - Continuation)

\$84,780.00 - Department of Labor, Washington, D.C., Private Sector Participation in Postsecondary Vocational Education, The National Center for Research in Vocational Education (R. D. Ryan), 19 February 1988 through 18 February 1989. (Project 766607 - New)

\$74,393.00 - Department of Health and Human Services, Public Health Service, National Institutes of Health, Bethesda, Maryland, BNCT (Boron Neutron Capture Therapy) Accelerator Target Assembly Design and Testing, Department of Mechanical Engineering (T. E. Blue) and Department of Radiology (R. Gahbauer), 1 April 1988 through 31 March 1989. (Project 766660 - New)

\$73,000.00 - Department of the Air Force, Air Force Systems Command, Hanscom Air Force Base, Massachusetts, Improved Gravity Field Estimation Procedures and the Development of Improved Reference Frames, Department of Geodetic Science and Surveying (R. H. Rapp), 1 October 1987 through 31 July 1988. (Project 765306 - Continuation)

\$73,000.00 - National Science Foundation, Washington, D.C., Collaborative Research: Climatic History of the Western Amazon Basin and the Equatorial Andes Since 18K, Department of Zoology (P. A. Colinvaux), 8 January 1988 through 31 January 1989. (Project 766323 - Continuation)

\$66,801.00 - Department of Health and Human Services, Public Health Service, National Institutes of Health, Bethesda, Maryland, Receptor Regulation of Adrenal Catecholamine Secretion, College of Pharmacy (D. M. McKay), 1 April 1988 through 31 March 1989. (Project 765968 - Continuation)

\$66,618.00 - Department of Health and Human Services, Public Health Service, National Institutes of Health, Bethesda, Maryland, A Study of

May 4 and 5, 1988 meeting, Board of Trustees

REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)

THE OHIO STATE UNIVERSITY RESEARCH FOUNDATION (contd)

Federal Research Contracts/Grants (contd)

DNA Intercalating Aromatic Amino Azides, Department of Chemistry (M. S. Platz), 1 December 1987 through 30 November 1988. (Project 765804 - Continuation)

\$60,869.00 - Department of the Air Force, Air Force Systems Command, Bolling Air Force Base, D.C., Fundamental Research on Erosion in Magnetoplasmadynamic Thrusters, Department of Mechanical Engineering (J. W. Rich), 30 September 1988 through 29 September 1989. (Project 766307 - Continuation)

\$60,042.00 - National Science Foundation, Washington, D.C., Accomplishment Based Research on Study of Gas-Liquid-Solid Fluidization, Department of Chemical Engineering (L. S. Fan), 1 May 1988 through 31 October 1989. (Project 765308 - Continuation)

\$51,736.00 - Department of Health and Human Services, Public Health Service, National Institutes of Health, Bethesda, Maryland, Kinetics and Mechanisms of Lipid Phase Transitions, Department of Chemistry (M. Caffrey), 1 January 1988 through 31 December 1988. (Project 766638 - New)

\$51,587.00 - Department of Health and Human Services, Public Health Service, National Institutes of Health, Bethesda, Maryland, Computer-Based Pathology Consultation, Department of Pathology (J. W. Smith), 1 March 1988 through 28 February 1989. (Project 764598 - Continuation)

\$50,948.00 - Department of Health and Human Services, Public Health Service, National Institutes of Health, Bethesda, Maryland, Glaucoma Laser Trial, Department of Ophthalmology (P. A. Weber), 22 February 1988 through 21 February 1989. (Project 764587 - Continuation)

\$50,829.00 - National Science Foundation, Washington, D.C., Curatorial Assistance and Storage Facilities for Antarctic Collection of Fossil Plants, Department of Botany (T. N. Taylor), Byrd Polar Research Center (E. L. Taylor), and Department of Geology and Mineralogy (S. M. Bergstrom), 15 March 1988 through 28 February 1989. (Project 766643 - New)

\$50,518.00 - Department of Health and Human Services, Public Health Service, National Institutes of Health, Bethesda, Maryland, Regulation of the Gene Expression in Neurospora, Department of Biochemistry (G. A. Marzluf), 1 April 1988 through 31 December 1988. (Project 760578 - Continuation)

\$49,541.00 - National Aeronautics and Space Administration, Lewis Research Center, Cleveland, Ohio, Measurement of the Properties of Lossy Materials Inside a Finite Conducting Cylinder, Department of Electrical Engineering, ElectroScience Laboratory (L. Peters, Jr.), 30 March 1988 through 30 July 1988. (Project 765938 - Continuation)

\$46,677.00 - National Science Foundation, Washington, D.C., Diversity and Distribution of Fossil Floras from Southern Victoria Land, Antarctica, Byrd Polar Research Center (E. L. Taylor and T. N. Taylor) and Department

May 4 and 5, 1988 meeting, Board of Trustees

REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)

THE OHIO STATE UNIVERSITY RESEARCH FOUNDATION (contd)

Federal Research Contracts/Grants (contd)

of Botany (T. N. Taylor), 1 April 1988 through 31 March 1989. (Project 766664 - New)

\$46,258.00 - Department of Health and Human Services, Public Health Service, National Institutes of Health, Bethesda, Maryland, Flow Cytometric Analysis of Oral Actinobacillus, Periodontology (W. Buchanan), 1 March 1988 through 28 February 1989. (Project 765251 - Continuation)

\$45,000.00 - National Aeronautics and Space Administration, Lewis Research Center, Cleveland, Ohio, Engineering Calculations for Communications Satellite Systems Planning, Department of Electrical Engineering, ElectroScience Laboratory (E. K. Walton) and Department of Industrial and Systems Engineering (C. H. Reilly), 15 December 1987 through 14 December 1988. (Project 762552 - Continuation)

\$40,000.00 - Department of Health and Human Services, Public Health Service, National Institutes of Health, Bethesda, Maryland, Normal Volunteers for Participation in Medical Research Projects, Department of Microbiology (A. M. Ackermann-Brown), 1 April 1988 through 31 March 1989. (Project 764072 - Continuation)

\$40,000.00 - Environmental Protection Agency, Washington, D.C., Regulation of Hydrogenase and Methyl Co-Enzyme M Reductase in Methanogens, Department of Microbiology (J. N. Reeve), 6 January 1988 through 5 January 1989. (Project 765152 - Continuation)

\$40,000.00 - National Science Foundation, Washington, D.C., Harmonic Curvature, Einstein Spaces, and Comparison Theorems, Department of Mathematics (E. Ruh and A. Derdzinski), 1 December 1987 through 31 May 1989. (Project 765878 - Continuation)

\$35,292.00 - Department of Agriculture, Science and Education, Washington, D.C., Institutional Support from the Animal Health and Disease Research Act of 1977, College of Veterinary Medicine - Administration (R. A. Wright), 1 October 1987 through 30 September 1988. (Project 762621 - Continuation)

\$34,508.00 - Department of Health and Human Services, Public Health Service, National Institutes of Health, Bethesda, Maryland, Comparative Aspects of Peripheral Lung Mechanics, Department of Veterinary Physiology and Pharmacology (L. E. Olson), 1 December 1987 through 30 November 1988. (Project 765821 - Continuation)

\$31,712.00 - National Science Foundation, Washington, D.C., Theoretical and Empirical Studies of Communities in Stochastic Environments, Department of Zoology (P. L. Chesson), 1 June 1988 through 31 May 1989. (Project 766066 - Continuation)

\$29,000.00 - National Security Council, Central Intelligence Agency, Washington, D.C., LDC Energy Data Base Collection, Department of Agricultural Economics and Rural Sociology - OARDC and Department of

May 4 and 5, 1988 meeting, Board of Trustees

REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)

THE OHIO STATE UNIVERSITY RESEARCH FOUNDATION (contd)

Federal Research Contracts/Grants (contd)

Agricultural Economics and Rural Sociology (W. S. Chern), 1 August 1987 through 28 February 1989. (Project 766381 - Continuation)

\$25,000.00 - Department of the Army, Army Research Office, Research Triangle Park, North Carolina, The Chemistry of Hexaazotriphenylene Hexanitride, a Polyfunctional Heterocycle with Potential Utility in the Formulation of Thermostable Polymers, Department of Chemistry (A. W. Czarnik), 1 December 1987 through 31 July 1988. (Project 764885 - Continuation)

\$23,716.00 - National Science Foundation, Washington, D.C., Honey Bee Division of Labor: A Behavioral Genetic Analysis, Department of Entomology (R. E. Page, Jr.), 15 March 1988 through 28 February 1989. (Project 766637 - New)

\$23,200.00 - National Science Foundation, Washington, D.C., Iwasawa Invariants and p-Adic L-Functions, Department of Mathematics (W. M. Sinnott), 1 July 1988 through 31 December 1989. (Project 765405 - Continuation)

\$19,600.00 - National Science Foundation, Washington, D.C., Formal Systems and Combinatorics, Department of Mathematics (T. J. Carlson), 1 May 1988 through 31 October 1989. (Project 766044 - Continuation)

\$16,000.00 - Department of the Army, Army Research Office, Research Triangle Park, North Carolina, An International Symposium on Molecular Spectroscopy, Department of Physics (K. N. Rao), 10 March 1988 through 31 March 1989. (Project 765282 - Continuation)

\$15,427.00 - National Science Foundation, Washington, D.C., Pollen Analysis of Three Long Cores from Arctic Alaska: A Test of Current Concepts in Beringian Paleocology, Byrd Polar Research Center and Department of Zoology (P. A. Colinvaux) 1 March 1988 through 31 March 1989. (Project 765920 - Continuation)

\$14,850.00 - National Science Foundation, Washington, D.C., Present and Future of Experimental Particle Physics by Hybrid Emulsion-Electronic Detectors, Department of Physics (N. W. Reay), 1 March 1988 through 31 August 1989. (Project 766642 - New)

\$12,047.00 - National Science Foundation, Washington, D.C., U.S.-Japan Seminar on "Electromagnetic Interference in Highly Advanced Social System," Department of Electrical Engineering (S. A. Sebo), 1 March 1988 through 31 May 1989. (Project 766647 - New)

\$10,000.00 - Department of the Air Force, Air Force Systems Command, Hanscom Air Force Base, Massachusetts, Spectroscopy of Molecular Ions and Their Clusters, Department of Chemistry (T. A. Miller), 1 October 1987 through 30 September 1988. (Project 765285 - Continuation)

\$10,000.00 - National Aeronautics and Space Administration, Ames Research Center, Moffett Field, California, Enroute Flight Path Planning:

May 4 and 5, 1988 meeting, Board of Trustees

REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)

THE OHIO STATE UNIVERSITY RESEARCH FOUNDATION (contd)

Federal Research Contracts/Grants (contd)

Cooperative Performance of Flight Crews and Knowledge-Based Systems, Department of Industrial and Systems Engineering (P. J. Smith) and Department of Aviation (C. E. McCoy), 1 February 1988 through 31 May 1988. (Project 766649 - New)

\$5,000.00 - National Aeronautics and Space Administration, Ames Research Center, Moffett Field, California, Intensity and Broadening Coefficients of Selected CO₂ Lines in the Infrared, Department of Physics (K. N. Rao), 1 October 1987 through 30 September 1988. (Project 765684 - Continuation)

\$4,500.00 - Department of Health and Human Services, Public Health Service, National Institutes of Health, Bethesda, Maryland, Minority High School Student Research Apprenticeship Program/Dentistry, Office of Minority Affairs (L. G. Morrow), 1 March 1988 through 28 February 1989. (Project 766629 - New)

\$4,000.00 - National Science Foundation, Washington, D.C., The Structure of Fossil Phloem, Byrd Polar Research Center (E. L. Taylor and T. N. Taylor) and Department of Botany (T. N. Taylor), 1 April 1988 through 31 October 1988. (Project 765956 - Continuation)

\$3,000.00 - Department of Health and Human Services, Public Health Service, National Institutes of Health, Bethesda, Maryland, Minority High School Student Research Apprenticeship Program/Biological Sciences, Office of Minority Affairs (L. G. Morrow), 1 March 1988 through 28 February 1989. (Project 766628 - Continuation)

\$3,000.00 - Department of Health and Human Services, Public Health Service, National Institutes of Health, Bethesda, Maryland, Minority High School Student Research Apprenticeship Program/Medicine, Office of Minority Affairs (L. G. Morrow), 1 March 1988 through 28 February 1989. (Project 766625 - Continuation)

\$3,000.00 - Department of Health and Human Services, Public Health Service, National Institutes of Health, Bethesda, Maryland, Minority High School Student Research Apprenticeship Program/Pharmacy, Office of Minority Affairs (L. G. Morrow), 1 March 1988 through 28 February 1989. (Project 766627 - Continuation)

\$3,000.00 - Department of Health and Human Services, Public Health Service, National Institutes of Health, Bethesda, Maryland, Minority High School Student Research Apprenticeship Program/Veterinary Medicine, Office of Minority Affairs (L. G. Morrow), 1 March 1988 through 28 February 1989. (Project 766626 - Continuation)

TOTAL - FEDERAL AWARDS

\$8,550,010.00

State of Ohio Research Contracts/Grants

\$49,997.00 - State of Ohio, Ohio Air Quality Development Authority, Columbus, Ohio, Development of a Course to Train Contractors in

May 4 and 5, 1988 meeting, Board of Trustees

REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)

THE OHIO STATE UNIVERSITY RESEARCH FOUNDATION (contd)

State of Ohio Research Contracts/Grants (contd)

Mitigation of Radon in Homes, Office of Radiation Safety (W. E. Carey), 1 May 1988 through 30 June 1989. (Project 766653 - New)

TOTAL - STATE OF OHIO AWARDS \$ 49,997.00

Industrial Research Contracts/Grants

\$164,137.00 - BIOPURE Corporation, Boston, Massachusetts, Determination of Subacute Toxicity of Hemopure 1 in Laboratory Primates, Department of Family Medicine (D. C. Mays) and Department of Pharmacology (N. Gerber), 17 February 1988 through 30 June 1988. (Project 765696 - Continuation)

\$138,988.00 - CIBA-GEIGY Corporation, Greensboro, North Carolina, Efficacy and Pharmacokinetics of Formulations of CGA-184699, an Experimental Compound for the Control of Fleas and Other Ectoparasitic Insects, Department of Entomology (W. F. Hink) and College of Pharmacy (J. J. MacKichan), 1 March 1988 through 28 February 1990. (Project 766635 - New)

\$124,000.00 - Systems Research Laboratories, Inc., Dayton, Ohio, Single Channel Short-Pulse Transceiver System, Department of Electrical Engineering, ElectroScience Laboratory (W. D. Burnside), 15 January 1988 through 1 June 1988. (Project 766612 - New)

\$103,520.00 - McNeil Pharmaceutical Company, Spring House, Pennsylvania, Double-Blind, Parallel Comparison of Three Doses of Topiramate (Low to Mid Range) and Placebo in Refractory Partial Epilepsy, Department of Neurology (M. E. Drake, Jr.), 22 February 1988 through 31 March 1989. (Project 766640 - New)

\$25,526.00 - Ameritech Corporation, Arlington Heights, Illinois, Knowledge-Based Test Development Support, The National Center for Research in Vocational Education (R. D. Ryan), 1 March 1988 through 30 June 1988. (Project 766652 - New)

\$23,958.00 - CeramPhysics, Inc., Westerville, Ohio, Modeling of Cryovaristor in High Power Switching Applications, Department of Physics (B. R. Patton) and Department of Electrical Engineering (F. Khan), 1 January 1988 through 30 September 1988. (Project 766645 - New)

\$20,000.00 - Boeing Advanced Systems Company, Seattle, Washington, Construct and Test a BASC Designed Airfoil Model, Department of Aeronautical and Astronautical Engineering (G. M. Gregorek), 1 March 1988 through 30 April 1988. (Project 766639 - New)

\$8,260.00 - Falcon Valley Consultants, Palo Alto, California, RCOPT Airfoil Data, Department of Aeronautical and Astronautical Engineering (G. M. Gregorek), 1 March 1988 through 30 April 1988. (Project 766633 - New)

\$5,616.00 - McNeil Pharmaceutical Company, Spring House, Pennsylvania, Etoperidone: Safety and Efficacy Versus Amitriptyline in Outpatients with

May 4 and 5, 1988 meeting, Board of Trustees

REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)

THE OHIO STATE UNIVERSITY RESEARCH FOUNDATION (contd)

Industrial Research Contracts/Grants (contd)

Recurrent Depression, Department of Psychiatry (S. L. Stern, B. A. Jones, A. B. Levy and D. J. Martin), 1 September 1986 through 31 August 1989. (Project 765698 - Continuation)

\$4,032.00 - Aerojet ElectroSystems Company, Azusa, California, High Velocity, Soft Body Impact, Department of Civil Engineering (W. E. Wolfe), 11 February 1988 through 30 June 1988. (Project 766624 - New)

\$2,955.00 - CIBA-GEIGY Corporation, Summit, New Jersey, Efficacy and Tolerability of Anafranil Versus Placebo in Obsessive-Compulsive Disorder, Department of Psychiatry (M. R. Mavissakalian), 1 November 1986 through 1 September 1989. (Project 765782 - Continuation)

TOTAL - INDUSTRIAL AWARDS

\$ 620,992.00

Other Non-Federal Research Contracts/Grants

\$71,815.00 - University of Texas, Galveston, Texas, Studies of Mechanism and Therapy of Human Immunodeficiency Virus (HIV) Cytotoxicity, Department of Veterinary Pathobiology (J. L. Rojko), 30 September 1987 through 31 August 1988. (Project 766650 - New)

\$58,500.00 - The University of Rochester, Rochester, New York, Parkinson's Study Group, Department of Neurology (G. W. Paulson), 1 April 1987 through 31 March 1988. (Project 766244 - Continuation)

\$51,889.00 - Council on International Educational Exchange, New York, New York, Ministry of Education Intensive English in the U.S.A. for Japanese Teachers of English, Department of English/Second Language (R. N. Kantor), 1 April 1988 through 31 December 1988. (Project 766658 - Continuation)

\$21,000.00 - Battelle Memorial Institute, Columbus, Ohio, Interdisciplinary Research on Wear of Materials, Department of Metallurgical Engineering (D. A. Rigney), 29 February 1988 through 31 August 1988. (Project 764981 - Continuation)

\$20,000 - American Health Assistance Foundation, Rockville, Maryland, Involvement of Endorphins in Cardiovascular Disease, Department of Pharmacology (G. A. Tejwani), 1 April 1988 through 31 March 1989. (Project 765992 - Continuation)

\$15,089.04 - Ashland Chemical Company, Columbus, Ohio; Online Computer Library Center (OCLC), Dublin, Ohio; Rubbermaid, Inc., Wooster, Ohio; American Electric Power Company, Columbus, Ohio; Nationwide Mutual Insurance Companies, Columbus, Ohio; and The Huntington National Bank, Columbus, Ohio, Columbus Training Directors' Consortium, The National Center for Research in Vocational Education (R. D. Ryan), 1 February 1988 through 31 May 1988. (Project 766651 - New)

May 4 and 5, 1988 meeting, Board of Trustees

REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)

THE OHIO STATE UNIVERSITY RESEARCH FOUNDATION (contd)

Other Non-Federal Research Contracts/Grants (contd)

\$11,020.00 - Texas A & M University, College Station, Texas, Mineralogy of Cenozoic Eolian Sediments from the Arabian Sea: Sediment Provenance and Monsoon History, Department of Geology and Mineralogy (L. Krissek), 1 March 1988 through 28 February 1989. (Project 766641 - New)

\$8,580.00 - Iowa State University, Ames, Iowa, Ultrasonic Evaluation of Porosity in Aluminum Cast Material, Department of Welding Engineering (L. Adler), 1 October 1987 through 30 April 1988. (Project 766636 - Continuation)

\$8,117.00 - Philippines Government, Manila, Philippines, DACUM (Developing a Curriculum) and Beyond DACUM Workshop -- Philippines, The National Center for Research in Vocational Education (R. D. Ryan), 1 September 1987 through 31 December 1987. (Project 766631 - New)

\$4,161.20 - Lazarus Family Fund, Gahanna, Ohio, Strengthening Families Through Sibling Participation, Nisonger Center (S. R. Schroeder and V. L. Reynolds), 1 October 1987 through 30 September 1988. (Project 766632 - New)

\$2,364.00 - Cancer Therapy and Research Foundation of South Texas, San Antonio, Texas, Multidisciplinary Participation in the Cancer Control Activities of the Southwest Oncology Group, Department of Internal Medicine (S. P. Balcerzak), 1 February 1985 through 30 June 1988. (Project 765208 - Continuation)

\$2,083.00 - March of Dimes Birth Defects Foundation, White Plains, New York, Adverse Effect of Gossypol and Gossypol-Containing Milk on Reproductive Function in Nursing Dams and Their Pups, Department of Veterinary Physiology and Pharmacology (Y. C. Lin), 1 December 1987 through 31 December 1988. (Project 766601 - Continuation)

\$2,000.00 - Benua Foundation, Inc., Columbus, Ohio, School Attendance Project, College of Education - Administration (T. M. Stephens), 1 December 1987 through 30 November 1988. (Project 766630 - New)

\$2,000.00 - Bergen Community College, Paramus, New Jersey, National Alliance of Community and Technical Colleges, The National Center for Research in Vocational Education (R. D. Ryan), 1 July 1987 through 30 June 1988. (Project 766171 - Continuation)

\$2,000.00 - Kentucky Department of Education, Frankfort Kentucky; Florida Department of Education, Tallahassee, Florida; Washington Department of Public Instruction, Olympia, Washington; and Wisconsin Board of Vocational, Technical, and Adult Education, Madison, Wisconsin, National Entrepreneurship Education Consortium, The National Center for Research in Vocational Education (R. D. Ryan), 1 July 1987 through 30 June 1988. (Project 766207 - Continuation)

\$1,629.00 - Cancer Therapy and Research Foundation of South Texas, San Antonio, Texas, Multidisciplinary Participation in the Cancer Control Activities of the Southwest Oncology Group, Department of Pathology (R.

May 4 and 5, 1988 meeting, Board of Trustees

REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)

THE OHIO STATE UNIVERSITY RESEARCH FOUNDATION (contd)

Other Non-Federal Research Contracts/Grants (contd)

O'Toole), 1 January 1988 through 31 December 1988. (Project 761460 - Continuation)

\$655.00 - Cancer Therapy and Research Foundation of South Texas, San Antonio, Texas, Mesothelioma Pathology Subcommittee, Department of Pathology (J. G. Lucas and S. E. Tuttle), 1 January 1988 through 31 December 1988. (Project 764837 - Continuation)

\$300.00 - Sigma Xi, New Haven, Connecticut, Mechanisms of Synapse Formation in Rat Dorsal Root Ganglion Neurons, Department of Anatomy (R. W. Burry), 15 January 1988 through 31 December 1988. (Project 766648 - New)

\$250.00 - Opportunities for Learning, Inc., Chatsworth, California, National Consortium of State Career Guidance Supervisors, The National Center for Research in Vocational Education (R. D. Ryan), 1 July 1987 through 30 June 1988. (Project 766331 - Continuation)

TOTAL - OTHER NON-FEDERAL AWARDS \$ 283,452.24

ENGINEERING EXPERIMENT STATION

State Sponsored Research and Development

\$148,031.00 - Ohio Department of Transportation, Columbus, OH, "Digital Data Acquisition and Archiving System," Department of Geodetic Science, 1 March 1988 through 1 March 1989. (529752)

Industrial and Other Sponsored Research and Development

\$75,000.00 - Battelle, Columbus, OH; Armco, Inc., Middletown, OH; and General Motors, Warren, MI, for second year membership in the Engineering Research Center for Net Shape Manufacturing, Engineering Experiment Station. (529200)

\$70,000.00 - Gleason Memorial Fund, Rochester, NY; Doehler-Jarvis, Toledo, Ohio; Forging Industry Association, Cleveland, OH; and Charter Manufacturing Co., Menomonie, WI, Fellowships for the Engineering Research Center for Net Shape Manufacturing, Engineering Experiment Station. (529202)

\$45,400.00 - General Electric, Cincinnati, OH, "Luthansa Engine Test Cell Model," Department of Aeronautical and Astronautical Engineering, 1 March 1988 through 31 May 1988. (312449)

\$39,800.00 - General Electric, Cincinnati, OH, "CELMA Test Cell Model," Department of Aeronautical and Astronautical Engineering, 1 March 1988 through 31 May 1988. (312450)

\$35,040.00 - from 44 sponsors of 53 development projects in four departments/research areas of the College of Engineering.

May 4 and 5, 1988 meeting, Board of Trustees

REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)

ENGINEERING EXPERIMENT STATION (contd)

Industrial and Other Sponsored Research and Development (contd)

\$30,000.00 - SPS Technology, Jenkintown, PA; McWilliams Forge, Rockaway, NJ; and USX Corporation (U.S. Steel Research), Monroeville, PA, for Associate Memberships in the Engineering Research Center for Net Shape Manufacturing, Engineering Experiment Station. (529200)

\$6,000.00 - Hoeganaes Corp., Riverton, NJ; Wright Tool, Barberton, OH; and Aluminum Forge Company, Santa Ana, CA, for Affiliate Memberships in the Engineering Research Center for Net Shape Manufacturing, Engineering Experiment Station. (529200)

\$3,000.00 - Additional budget from Wolverine Gasket Company, Inkster, MI, "Evaluation of Disc Brake Pads," Department of Mechanical Engineering, 23 June 1986 through 30 September 1988. (312878, Ext. 1)

TOTAL - INDUSTRIAL AND OTHER SPONSORED RESEARCH \$ 304,240.00

THE OHIO STATE UNIVERSITY DEVELOPMENT FUND

Establishment of Named Funds

The Henry G. Cramblett Fund in Medicine

The Henry G. Cramblett Fund in Medicine was established May 5, 1988, by the Board of Trustees of The Ohio State University with the initial portion of a gift of \$500,000 to The Ohio State University Development Fund from the late Mrs. Helen Simpson Lambacher (B.S.Ed. '33) of Venice, Florida, in memory of her parents, Lynn and Sarah Simpson, and in honor of Dr. Henry G. Cramblett's service as Dean of the College of Medicine and Vice President for Health Sciences from 1973 to 1982.

All gifts in the fund are to be invested in the University's permanent endowment fund, under the rules and regulations adopted by the Board of Trustees of The Ohio State University with the right to invest and reinvest as occasion dictates.

When additional gifts are added to the principal, an endowed chair will be established in accordance with the level of funding required to establish a chair at the time the donor's will was drafted in 1978. At that time the level of funding required to establish an endowed chair was \$600,000. Subsequently, the annual income is to provide salary and program support in the Department of Pediatrics in The Ohio State University College of Medicine for the work of a distinguished pediatrician who is nationally noted for leading research and patient care in the area of infectious diseases. Appointment to the Cramblett Chair will be made at the recommendation of the Dean of the College of Medicine to the Provost and approved by The Ohio State University Board of Trustees after consultation with the Chair of the Department of Pediatrics and Dr. Henry G. Cramblett, as long as he is living.

It is the desire of the donor that this fund should benefit the University in perpetuity. If the need for this fund should cease to exist or so diminish as to provide unused income, then another use shall

May 4 and 5, 1988 meeting, Board of Trustees

REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)

THE OHIO STATE UNIVERSITY DEVELOPMENT FUND (contd)

Establishment of Named Funds (contd)

The Henry G. Cramblett Fund in Medicine (contd)

be designated by the Board of Trustees in consultation with the appropriate college dean, department chair, or program administrative officer to carry out the desire of the donor.

The Lawrence D. Jones Scholarship Fund

The Lawrence D. Jones Scholarship Fund was established May 5, 1988, by the Board of Trustees of The Ohio State University with a gift to The Ohio State University Development Fund in memory of Dean Lawrence D. Jones (B.C.E. '23) from his wife, Alice Jones of Columbus, Ohio.

All gifts are to be invested in the University's permanent endowment fund, under the rules and regulations adopted by the Board of Trustees of The Ohio State University with the right to invest and reinvest as occasion dictates.

Ten percent (10%) of the annual income shall be reinvested in the fund's principal to assure future growth. The remaining ninety percent (90%) of the annual income shall be used to provide one or more scholarships to students who have demonstrated superior academic ability as engineering majors at The Ohio State University. Preference will be given to Ohio residents. Additional consideration will be extended to students with proven financial need. Recipients will be named annually, but may be eligible to compete for renewed awards. Selection will be made by the Dean of the College of Engineering with assistance from the University Committee on Student Financial Aid.

Dean Lawrence D. Jones had a lifelong interest in the study of history. This interest should be considered if the need for this fund should cease to exist or so diminish as to provide unused income within the area of engineering education at The Ohio State University. If this occurs, the income may be used for any purpose whatsoever as determined by the Board of Trustees, with preference being given to the recommendations from the appropriate administrative officials of the University who are then responsible for engineering and history education.

The John H. and Mabel D. Herrick Fund

The John H. and Mabel D. Herrick Fund was established May 5, 1988, by the Board of Trustees of The Ohio State University with gifts to The Ohio State University Development Fund from John H. (B.A. '28; M.A. '36; Ph.D. '44) and Mabel D. Herrick of Columbus, Ohio.

All gifts are to be invested in the University's permanent endowment fund, under the rules and regulations adopted by the Board of Trustees of The Ohio State University with the right to invest and reinvest as occasion dictates.

May 4 and 5, 1988 meeting, Board of Trustees

REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)

THE OHIO STATE UNIVERSITY DEVELOPMENT FUND (contd)

Establishment of Named Funds (contd)

The John H. and Mabel D. Herrick Fund (contd)

The annual income shall be used in the College of Education to support projects designed to attract and hold competent faculty and staff members, or to increase their competence and effectiveness as employees. Expenditure decisions are to be made by the Dean of the College of Education.

It is the desire of the donors that this fund should benefit the University in perpetuity. If the need for all or part of this income for the purpose indicated should cease to exist, or if the administrative organization for teacher education should change, the Board of Trustees upon recommendation of the chief executive officer of the University shall designate another use for the income no longer needed for this initial purpose, and shall reassign administrative responsibility to use the income as it deems advisable.

Bogner Endowment Fund

The Bogner Endowment Fund was established May 5, 1988, by the Board of Trustees of The Ohio State University with gifts to The Ohio State University Development Fund from Donald P., Robert E. and Theodore R. Bogner of Wooster, Ohio, members of the third generation to operate the family construction business which celebrates its 75th anniversary in 1988. The endowment is named for the company's founder, the late Theodore I. Bogner, and his sons, Robert P. Bogner and the late Richard B. Bogner.

All gifts are to be invested in the University's permanent endowment fund, under the rules and regulations adopted by the Board of Trustees of The Ohio State University with the right to invest and reinvest as occasion dictates.

The annual income shall be used to provide scholarships to students enrolled in the construction technology program at the Agricultural Technical Institute. Scholarship recipients shall be chosen cooperatively by the Chairperson of the Department of Engineering Technologies and the coordinator of Student Services, in consultation with the University Committee on Student Financial Aid.

It is the desire of the donors that this fund should benefit the University in perpetuity. If the need for this fund should cease to exist or so diminish as to provide unused income, then another use shall be designated by the Board of Trustees to carry out the desire of the donors.

May 4 and 5, 1988 meeting, Board of Trustees

REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)

THE OHIO STATE UNIVERSITY DEVELOPMENT FUND (contd)

Establishment of Named Funds (contd)

Feibel Lecture Fund

The Feibel Lecture Fund was established May 5, 1988, by the Board of Trustees of The Ohio State University with gifts to The Ohio State University Development Fund from Donald Feibel, Mrs. Troy Feibel through the Columbus Jewish Foundation, and Robert Shamansky of Columbus, Ohio.

All gifts are to be invested in the University's permanent endowment fund, under the rules and regulations adopted by the Board of Trustees of The Ohio State University with the right to invest and reinvest as occasion dictates.

The annual income shall be used to sponsor an annual community lecture (or lectures) on Judaism and law. Expenditures from the fund shall be approved by the Dean of the College of Humanities.

It is the desire of the donors that this fund should benefit the University in perpetuity. If the need for this fund should cease to exist or so diminish as to provide unused income, then another use shall be designated by the Board of Trustees to carry out the desire of the donors.

Change of Name and Description of Named Funds

Milton Caniff Endowment Fund

The Milton Caniff Research Room Fund was established March 6, 1981, by the Board of Trustees of The Ohio State University with gifts from the family and friends of Milton Caniff (B.A. '30; Doctor of Humane Letters '74). The name and description were changed May 5, 1988.

All gifts are to be invested in the University's permanent endowment fund, under the rules and regulations adopted by the Board of Trustees of The Ohio State University with the right to invest and reinvest as occasion dictates.

The annual income shall be used to staff and equip the Library for Communication and Graphic Arts and to acquire, preserve, and organize multimedia collections which are representative of the mass media in 20th-century America. The income will be expended by the Curator of the Library for Communications and Graphic Arts in consultation with the Director of University Libraries.

Should the need for this fund cease to exist or so diminish as to provide unused income, then the income may be used for any purpose whatsoever as determined by the Board of Trustees, with preference being given to the University Libraries.

May 4 and 5, 1988 meeting, Board of Trustees

REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)

THE OHIO STATE UNIVERSITY DEVELOPMENT FUND (contd)

Change of Name and Description of Named Funds (contd)

The Hazel C. Youngberg Trustees Distinguished Professorship

The Hazel C. Youngberg Memorial Fund was established September 8, 1972, by the Board of Trustees of The Ohio State University with a bequest to The Ohio State University through The Ohio State University Development Fund from Hazel C. Youngberg (B.A. '08), late of San Francisco, California. The name and description were changed May 5, 1988.

All gifts are to be invested in the University's permanent endowment fund, under the rules and regulations adopted by the Board of Trustees of The Ohio State University with the right to invest and reinvest as occasion dictates.

The annual income shall be used to provide support for the work of a distinguished scholar and teacher. Appointment as the Hazel C. Youngberg Trustees Distinguished Professorship will be recommended by the Vice President of Academic Affairs and Provost, and approved by the Board of Trustees. Expenditures from the fund shall be authorized by the Provost.

Should the need for this fund cease to exist or so diminish as to provide unused income, then another use shall be designated by the Board of Trustees.

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**EMPLOYMENT OF ARCHITECT/ENGINEER AND
REQUEST FOR CONSTRUCTION BIDS
ST. JOHN ARENA - ROOF REPLACEMENT**

Resolution No. 88-122

Synopsis: Authorization to employ an architectural/engineering firm and request construction bids is proposed.

WHEREAS the original roof of St. John Arena, which was constructed in 1956, is extremely deteriorated and needs to be replaced with a totally new roofing system; and

WHEREAS \$1,800,000.00 will be made available for this project from Department of Athletics funds, of which \$1,500,000.00 is estimated for construction:

NOW THEREFORE

BE IT RESOLVED, That the President and/or Vice President for Business and Administration be authorized, in accordance with established University procedures, to select a qualified architectural/engineering firm for this project, to request construction bids on this project, and if satisfactory bids are received, to award the necessary contracts, with all actions to be reported to this Board at the appropriate time.

May 4 and 5, 1988 meeting, Board of Trustees

**EMPLOYMENT OF ARCHITECT/ENGINEER AND
REQUEST FOR CONSTRUCTION BIDS
ST. JOHN ARENA - ROOF REPLACEMENT (contd)**

Upon motion of Amb. Wolf, seconded by Mr. Teaford, the Board of Trustees adopted the foregoing resolution by unanimous roll call vote.

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**EMPLOYMENT OF ARCHITECT/ENGINEER AND
REQUEST FOR CONSTRUCTION BIDS
OHIO STADIUM - REFINISH EXPOSED STRUCTURAL STEEL**

Resolution No. 88-123

Synopsis: Authorization to employ an architectural/engineering firm and request construction bids is proposed.

WHEREAS the structural steel of Ohio Stadium has not been repainted for more than twenty-five years, and the present paint is cracked, scaling, and peeling loose from the steel; and

WHEREAS complete removal of all rust and loose paint, and the repriming and repainting of all exposed structural steel will prevent further deterioration; and

WHEREAS \$850,000.00 will be made available for this project from Department of Athletics funds, of which \$775,000.00 is estimated for construction:

NOW THEREFORE

BE IT RESOLVED, That the President and/or Vice President for Business and Administration be authorized, in accordance with established University procedures, to select a qualified architectural/engineering firm for this project, to request construction bids on this project, and if satisfactory bids are received, to award the necessary contracts, with all actions to be reported to this Board at the appropriate time.

Upon motion of Mr. Immke, seconded by Mr. Berry, the Board of Trustees adopted the foregoing resolution by unanimous roll call vote.

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**REQUEST FOR CONSTRUCTION BIDS AND
ESTIMATE OF COST - FUNDING**

Resolution No. 88-124

Synopsis: Authorization to request construction bids is proposed.

WHEREAS the plans and specifications for the following project have been completed and, at the request of the Vice President for Business and Administration, the President recommended that the Board of Trustees authorize the request for construction bids:

May 4 and 5, 1988 meeting, Board of Trustees

**REQUEST FOR CONSTRUCTION BIDS AND
ESTIMATE OF COST - FUNDING (contd)**

GOLF COURSE - IRRIGATION SYSTEM REPAIR AND REPLACEMENT

Project: The present irrigation system at the Golf Course is more than 30 years old and deteriorated. Installation of a computer linked weather station to monitor and control the duration and watering sequence; modernization of existing pump controls; and repairs to existing cast iron mains; and replacement of all galvanized pipe with PVC lines will provide for a more efficient operation.

Funding: Department of Athletics

Estimated Construction Cost: \$825,000.00

Estimated Project Cost: \$887,750.00

NOW THEREFORE

BE IT RESOLVED, That the President and/or Vice President for Business and Administration be authorized, in accordance with established University procedures, to request construction bids on this project, and if satisfactory bids are received, to award the necessary contracts, with all actions to be reported to this Board at the appropriate time.

Upon motion of Amb. Wolf, seconded by Mr. Berry, the Board of Trustees adopted the foregoing resolution with eight affirmative votes cast by Messrs. Immke, Berry, Teaford, Barone, Kessler, and Wolf, and Mrs. Bowser and Ms. Casto, and a negative vote cast by Mr. Redman.

Mr. Redman:

I might add that connected with that no, that I'm further impressed by Mr. Jackson's remarks that he may be able to cut \$400,000 or \$500,000 off the bid when he really gets his teeth into it.

Mr. Immke:

Mr. Chairman, I didn't hear a specific amount of reduction -- I did hear that there was a possibility of reduction.

Mr. Redman:

Well knowing Mr. Jackson, when he really gets into it, my guess is -- I have confidence in Mr. Jackson.

Mr. Kessler:

He's going to be out there on weekends watering it by hand.

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May 4 and 5, 1988 meeting, Board of Trustees

**REPORT OF AWARD OF CONTRACTS AND
ESTABLISHMENT OF CONTINGENCY FUNDS**

Resolution No. 88-125

Synopsis: Contracts have been awarded for the projects listed below to the lowest and best bidders in accordance with University procedures.

WHEREAS resolutions adopted by the Board of Trustees at previous meetings authorized the President and/or Vice President for Business and Administration to sign the plans and specifications and, in accordance with established University procedures, to request bids and, if satisfactory bids were received, to recommend the award of contracts for Ives Hall Remodeling, Rhodes Hall Administrative Offices, Postle Hall Elevator, and Robinson Lab Roof Replacement projects; and

WHEREAS resolutions adopted by the Board of Trustees at previous meetings authorized the President and/or Vice President for Business and Administration to sign the plans and specifications and, in accordance with established University procedures, to request bids and, if satisfactory bids were received, to recommend to the Department of Administrative Services, Division of Public Works, the award of contracts for the Mansfield Regional Campus - Ovalwood Hall Renovation project as follows:

IVES HALL REMODELING

Description: This project provides for the remodeling of Ives Hall to improve the lighting system, install additional restrooms and converting a portion of the building for classroom use. Construction is scheduled to begin May 1988 and be completed by September 1, 1988.

General Contract

Date Received:	March 21, 1988
No. of Bids:	6
Low Bid:	\$ 622,423.00*
High Bid:	\$1,032,600.00*
Estimate of Cost:	\$1,086,485.00*
Awarded to:	Gutknecht Construction, Columbus, OH

Plumbing Contract

Date Received:	March 21, 1988
No. of Bids:	3
Low Bid:	\$ 45,223.73*
High Bid:	\$ 69,000.00*

*Recommended alternates reflected in these figures.

May 4 and 5, 1988 meeting, Board of Trustees

REPORT OF AWARD OF CONTRACTS AND
ESTABLISHMENT OF CONTINGENCY FUNDS (contd)

IVES HALL REMODELING (contd)

Plumbing Contract (contd)

Estimate of Cost: \$ 57,104.00*

Awarded to: Wright Plumbing Inc., Fazeysburg, OH

HVAC Contract

Date Received: March 21, 1988

No. of Bids: 3

Low Bid: \$ 240,559.00*

High Bid: \$ 287,700.00*

Estimate of Cost: \$ 291,643.00*

Awarded to: C. R. Legner Co., Columbus, OH

Electric Contract

Date Received: March 21, 1988

No. of Bids: 7

Low Bid: \$ 179,707.00*

High Bid: \$ 336,620.00*

Estimate of Cost: \$ 223,945.00*

Awarded to: Eastmoor Electrical Ctrs., Columbus, OH

Total All Contracts: \$1,087,912.73*

Total Contingency Allowance: \$ 168,852.17 (which is 16% of construction costs)

Total Project Cost: \$1,425,000.00*

Funding: University Funds

*Recommended alternates reflected in these figures.

MANSFIELD REGIONAL CAMPUS - OVALWOOD HALL RENOVATION

Description: Renovation of instructional and support areas of the Mansfield Regional Campus together with the construction of an art gallery to be known as the Pearl R. Conard Gallery of Art. Construction is to begin May 1988 and be completed within one year.

May 4 and 5, 1988 meeting, Board of Trustees

REPORT OF AWARD OF CONTRACTS AND
ESTABLISHMENT OF CONTINGENCY FUNDS (contd)

MANSFIELD REGIONAL CAMPUS - OVALWOOD HALL RENOVATION (contd)

General Contract

Date Received:	March 3, 1988
No. of Bids:	3
Low Bid:	\$ 425,061.00*
High Bid:	\$ 491,492.00*
Estimate of Cost:	\$ 431,380.00*
Awarded to:	B. C. & G. Weithman Construction, Bucyrus, OH

HVAC Contract

Date Received:	March 3, 1988
No. of Bids:	3
Low Bid:	\$ 130,980.00*
High Bid:	\$ 140,670.00*
Estimate of Cost:	\$ 136,066.00*
Awarded to:	C. R. Legner Co., Columbus, OH

Electric Contract

Date Received:	March 3, 1988
No. of Bids:	4
Low Bid:	\$ 60,485.00*
High Bid:	\$ 75,091.00*
Estimate of Cost:	\$ 70,691.00*
Awarded to:	Knox Electrical Constr., Fredericktown, OH

Total All Contracts: \$ 616,526.00*

Total Contingency Allowance: \$ 30,826.78 (which is 5% of construction costs)

Total Project Cost: \$ 779,378.00*

Funding: H.B. 798; S.B. 348; H.B. 870; and University Funds

*Recommended alternates reflected in these figures.

May 4 and 5, 1988 meeting, Board of Trustees

**REPORT OF AWARD OF CONTRACTS AND
ESTABLISHMENT OF CONTINGENCY FUNDS (contd)**

RHODES HALL ADMINISTRATIVE OFFICES

Description: This project provides for the expansion of the existing first floor administrative offices to provide a total of ten offices and two conference rooms instead of the present five offices and one conference room; renovation of the first floor entrance lobby and new reception desk; and a new canopied entrance "air lock" to provide weather protection for patients and visitors and eliminate cold winds from penetrating the reception area.

General Contract

Date Received:	April 14, 1988
No. of Bids:	6
Low Bid:	\$ 324,000.00*
High Bid:	\$ 441,330.00*
Estimate of Cost:	\$ 394,000.00*
Awarded to:	Cody Zeigler, Inc., Summit Station, OH

Mechanical Contract

Date Received:	April 14, 1988
No. of Bids:	3
Low Bid:	\$ 67,550.00*+
High Bid:	\$ 106,669.00*
Estimate of Cost:	\$ 65,000.00*
Awarded to:	Lincoln T. Mandeville Plumbing and Marco Plumbing and Heating Co., joint venture, Columbus, OH

Electric Contract

Date Received:	April 14, 1988
No. of Bids:	3
Low Bid:	\$ 65,500.00*+
High Bid:	\$ 72,385.00*

*Recommended alternates reflected in these figures.

+Mechanical and Electric Contracts are in excess of filed estimate of cost; however, the total price of all contracts is within 10% of the total estimate of cost and is recommended for award as provided by Section 153.12 of the Revised Code.

May 4 and 5, 1988 meeting, Board of Trustees

**REPORT OF AWARD OF CONTRACTS AND
ESTABLISHMENT OF CONTINGENCY FUNDS (contd)**

RHODES HALL ADMINISTRATIVE OFFICES (contd)

Electric Contract (contd)

Estimate of Cost:	\$ 59,000.00*
Awarded to:	Express Electric Co., Columbus, OH
Total All Contracts:	\$ 457,050.00*
Total Contingency Allowance:	\$ 68,557.95 (which is 15% of construction costs)
Total Project Cost:	\$ 582,306.00*
Funding:	University Hospitals Funds

*Recommended alternates reflected in these figures.

POSTLE HALL ELEVATOR

Description: This project provides for the installation of an elevator in Postle Hall. The first two floors of the shared elevator shaft between the west end of Postle Hall and the new connector to Cancer Research Institute were included in the Cancer Research project. This installation will complete the construction serving all floors of Postle Hall. Construction is scheduled to begin May 1988 and be completed within 252 days.

General Contract

Date Received:	February 25, 1988
No. of Bids:	6
Low Bid:	\$ 302,700.00*+
High Bid:	\$ 353,000.00*
Estimate of Cost:	\$ 291,251.00*
Awarded to:	Cody Zeigler Inc., Summit Station, Ohio

HVAC Contract

Date Received:	February 25, 1988
No. of Bids:	3

*Recommended alternates reflected in these figures.

+General Contract is in excess of filed estimate of cost; however, the total price of all contracts is within 10% of the total estimate of cost and is recommended for award as provided by Section 153.12 of the Revised Code.

May 4 and 5, 1988 meeting, Board of Trustees

**REPORT OF AWARD OF CONTRACTS AND
ESTABLISHMENT OF CONTINGENCY FUNDS (contd)**

POSTLE HALL ELEVATOR (contd)

HVAC Contract (contd)

Low Bid:	\$ 18,700.00
High Bid:	\$ 19,980.00
Estimate of Cost:	\$ 19,991.00
Awarded to:	Marco Plumbing & Heating Co., Columbus, OH

Electric Contract

Date Received:	February 25, 1988
No. of Bids:	9
Low Bid:	\$ 12,150.00*
High Bid:	\$ 23,691.00*
Estimate of Cost:	\$ 13,828.00*
Awarded to:	Meisner Electric Inc., Columbus, OH

Total All Contracts: \$ 333,550.00*

Total Contingency Allowance: \$ 16,690.77 (which is 5% of construction costs)

Total Project Cost: \$384,300.00*

Funding: University Funds

*Recommended alternates reflected in these figures.

ROBINSON LABORATORY - ROOF REPLACEMENT

Description: This project provides for the replacement of the old, deteriorated roof on Robinson Laboratory. Construction is scheduled to begin June 1988 and be completed within one hundred fifty days.

General Contract

Date Received:	March 24, 1988
No. of Bids:	6
Low Bid:	\$ 175,540.00
High Bid:	\$ 264,000.00
Estimate of Cost:	\$ 228,500.00

May 4 and 5, 1988 meeting, Board of Trustees

**REPORT OF AWARD OF CONTRACTS AND
ESTABLISHMENT OF CONTINGENCY FUNDS (contd)**

ROBINSON LABORATORY - ROOF REPLACEMENT (contd)

General Contract (contd)

Awarded to: L.N.C. Corporation, Columbus, OH

Total All Contracts: \$ 175,540.00

Total Contingency Allowance: \$ 17,539.52 (which is 10% of construction costs)

Total Project Cost: \$ 194,500.00

Funding: H.B. 870 (U & R)

NOW THEREFORE

BE IT RESOLVED, That pursuant to the actions previously authorized by the Board, the award of contracts and the establishment of project funds and contingency funds for the projects listed above are hereby approved.

Upon motion of Mr. Kessler, seconded by Mr. Barone, the Board of Trustees adopted the foregoing resolution by unanimous roll call vote.

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President Jennings made the following statement:

Mr. Chairman, in keeping with the normal budget cycle for the University, it is my responsibility to report to you our budget plans for next year at this meeting, so that a resolution on the operating budget can be brought before this Board in June for the fiscal year beginning July 1, 1988.

We continue to benefit from a bi-partisan state legislative climate that values higher education, and from increasing success in private fundraising. Examples of the benefits of the Academic Challenge, Eminent Scholars, the Ohio Supercomputer Center, and other important special projects for higher education abound to recognize the State's foresight. We are recruiting faculty to fill endowed professorships and awarding new academic scholarships to students thanks to generous contributions from our supporters around the State and the nation.

However, the State is now feeling the effects of an income tax base that is currently lower than it was in 1982. The State lacks the funds to meet higher education's full needs. Private dollars must continue to be designated for our margin of excellence, not the basic requirements of the institution, or their special benefits will be irreparably diluted.

While we continue to have a growing budget at Ohio State, there is a critical difference this year in the rate of that growth. State funding is, and will be for the foreseeable future,

May 4 and 5, 1988 meeting, Board of Trustees

President Jennings: (contd)

growing at a slower rate than we have seen in the past. The State budget increases provide only a 3.5 percent increase in the General Funds Budget for the coming fiscal year.

For an historical comparison, our increase last year was 4.1 percent in the first year of the current biennium. That compares to increases of 11 percent and 9 percent in the biennium just before. Our recovery period from the difficult years of budget retrenchment was enormously helpful in restoring budgetary equilibrium.

However, we can no longer rely upon the State for increases at those earlier rates. Growth in State funding will continue, but at a slower pace than before. We at Ohio State, rather than scale back our ambitious plans, must be prepared to sustain our momentum on our own.

To continue to enhance excellence, and to continue to capitalize upon opportunities as they arise, we must strengthen our resolve to make difficult judgments among competing priorities as we manage the growth and the impressive progress toward pre-eminence that we see rapidly advancing all around us, in all areas of the University community.

Last year, we experimented with a program of cost containment to help generate internal savings to fund our ambitious plans. It also included monetary incentives for participation in the form of individual bonuses.

While our experiment was successful in realizing the targeted savings, the institution needs to consider other approaches to achieve the broader goals of the cost containment concept: improved information sharing and shared decision-making; greater team work across normal departmental or office boundaries; and, in particular, quality enhancement throughout the institution.

To succeed in meeting those goals, I believe the pursuit of excellence should be separated from the necessity of cutting costs. Under cost containment, cutbacks somehow became the goal, rather than assuming a proper place as a side effect of quality enhancement through the creative use of resources.

For the coming year, I will recommend that our efforts to generate new funds internally return to the reallocation system we have used successfully in the past. Through reallocation, we will find the resources within the institution to enable us to hold tuition within the rates of increase recommended by the General Assembly, fund the enhancement of excellence in colleges and offices, and reward faculty and staff members through competitive levels of compensation.

The budget planning guidelines I am outlining today for the 1988-89 fiscal year have been developed after consultation with our faculty, staff, and students through the University's Fiscal Committee and the Faculty Compensation and Benefits Committee of the University Senate. Their long hours of dedicated work on

May 4 and 5, 1988 meeting, Board of Trustees

President Jennings: (contd)

these important issues should be recognized and is very much appreciated.

Our first priority in setting budget guidelines must be keeping student tuition increases to the lowest possible levels. The State recommendation incorporated in the biennium budget guidelines was an 8 percent tuition increase this year.

You will recall that last year, when faced with recommended tuition increases of 22 percent from the General Assembly, we succeeded in holding Ohio State's increase to 10.9 percent. The year before, in 1986 -- for the first time in many years -- Ohio State did not increase tuition at all. However, with continued modest State support, our ability to set Ohio State's tuition below the state-recommended increases has been exhausted.

This year, we must reluctantly accede to the funding levels for the instructional subsidy provided in the State budget by the General Assembly. This will require that an 8 percent tuition increase for Ohio resident students be recommended.

We will, additionally, raise certain non-resident tuition levels at a higher rate. The diversity of the campus generated by attracting students from varied backgrounds is important to the quality educational environment we provide. However, we need to bring the relative share of costs paid by out-of-state students more in line with that assumed by Ohio residents through their tuition plus instructional subsidy from the State.

In allocating funds within the institution, our first priority will be providing sufficient funding for student financial aid to ensure that we maintain the purchasing power of our grants to students with demonstrated need. We also will provide funds so that students newly eligible for aid due to the increase in tuition will receive the assistance they need.

At the same time, we will continue strongly urging our State officials to renew their commitment to returning the share of higher education costs paid by student tuition to the traditional one-third share. We must look to the State to provide sufficient funding for Ohio's public colleges and universities to hold their tuition adjustments closer to the inflation rates in order to maintain accessibility.

For the record, Ohio State's tuition ranks us fifth in the Big Ten, and tenth of the thirteen public universities in the State of Ohio.

A fundamental principle of Ohio State's land-grant mission is accessibility. I believe that no qualified student should be denied access to Ohio's flagship university on the basis of insufficient financial resources. Providing adequate State funding to keep our tuition as low as possible must be a priority goal for all the citizens of Ohio.

May 4 and 5, 1988 meeting, Board of Trustees

President Jennings: (contd)

Other costs for students include various fees and charges for residence and dining halls, parking, bookstores, and other aspects of campus life. These charges are assessed by auxiliary services, which we expect to be self-supporting within centrally established guidelines. This year, we will ease prior restrictions on price increases in the auxiliaries, allowing each area to make its case for price changes based on their own goals and markets, and in a context of continuing to reduce internal costs.

However, we also will expect attention to be focused on the important goal of keeping an Ohio State education accessible in all respects, and the overall average of the increases is not to exceed the 8 percent tuition increase.

Our compensation for faculty and staff must remain competitive. The rising costs of benefits makes that more difficult each year. This year, just to maintain current medical benefits, our costs will increase some 40 percent -- despite the continuing efforts of University Hospitals and the Office of Personnel Services to find imaginative new ways to meet the needs of our employees while holding costs down.

Salaries, however, remain the centerpiece of compensation. I will recommend a 1.5 percent across-the-board increase for all our faculty and staff members, with an additional 2.5 percent for merit increases. We also will continue our practice of making a central pool available for equity and excellence adjustments and to address market issues, totalling another 1 percent.

With these salary guidelines and the substantial increases in medical benefit rates paid by the institution, we will have an increase in salary and benefit costs of 6.8 percent. At this level, we are able to maintain our competitive position among the nation's best comprehensive research-oriented universities.

For equipment and supplies budgets in the colleges and offices, I will recommend budget increases of 3 percent, with options for each area to request additional funds for special priority needs.

In proposing these recommendations, I have not for one moment considered moving away from continuing our progress in identifying and enhancing excellence, as well as maintaining competitive levels of compensation for faculty and staff. However, to meet the guidelines I have outlined, the institution will need to generate \$12 million dollars in additional resources if we are to balance our budget.

As I mentioned briefly at the outset, it is my intention to return to a reallocation process for internal generation of new funds. However, just as I have been committed to developing institutional flexibility through total resource management, I will expect the process of reallocation by the colleges and offices to reflect the same flexibility in setting goals.

May 4 and 5, 1988 meeting, Board of Trustees

President Jennings: (contd)

Furthermore, no area, large or small, will have its budget approved if its own budget approach is seen to be simplistic across-the-board percentage reallocations. This principle has been stated year after year. But year after year, too many of us have looked to across-the-board budget reductions to meet goals. As we return to reallocation, such across-the-board approaches will be unacceptable.

Admittedly, setting and funding priorities calls for difficult decisions. But we must recognize differing needs and, indeed, differing achievements in prior years that have left some areas truly lean and efficient, while others cling to out-of-date procedures and programs of dubious value to our fundamental priorities. Those differentiations must be made as part of the budget process, in the context of anticipating a substantial reallocation each spring.

Our understanding of total resource management also must be expanded to include human resources. Vice Presidents Weldon Ihrig and Madison Scott have been evaluating last year's cost containment effort and talking to faculty, staff, and students across the institution to hear their comments and suggestions. I will ask them, in the coming months, to develop its broader goals and most useful characteristics, in articulating a revised program that focuses on quality enhancement first and foremost.

As we focus on reassessment of all of that we do with firm commitment to quality, I have confidence that cost savings will be realized as a part of our success, rather than as the primary goal. And, while opportunities for bonuses as well as other recognitions for accomplishments will be considered, they will accrue directly to the individuals or groups involved, based upon the results achieved.

Part of total resource management is looking to ourselves for staffing the growth areas of the University. While the faculty are basically specialized, by and large our outstanding staff suffers no such limitation. As programs, projects, or services become obsolete, the people who made those efforts work need to be given opportunities to direct their skills and their loyalty to Ohio State into new areas and to match their professional growth to the priority directions of the institution.

For the coming year, new hiring to staff growth areas in the institution will be focused on internal redistribution and finding new opportunities for our most valuable quality asset, Ohio State's human resources.

The 1988-89 University budget we will present for your approval in June will be in accordance with these guidelines, which seek to make the best possible use of our substantial advantages of size, diversity, and institutional flexibility.

We have the capacity and the commitment to continue the pursuit of recognized pre-eminence, without losing sight of our fundamental land-grant mission. Working together, our faculty

May 4 and 5, 1988 meeting, Board of Trustees

President Jennings: (contd)

and staff members, along with our students, will continue to further Ohio State's unique identity as an outstanding example of comprehensive excellence.

Thank you, Mr. Chairman. I will be happy to respond to any questions that you or the Board might have.

Mr. Redman:

The only question I have, President Jennings, is the one I asked in the committee meeting, that I don't think you touched on in your report -- you're recommended budget will balance and the income will exceed or at least equal the expenses?

President Jennings:

The recommended budget will balance, Mr. Chairman, that is primarily why the \$12 million internal reallocation -- although we don't at this stage know, it will be on the order of \$970 - \$980 million. You will not yet have, Mr. Len Immke, a billion dollar budget.

Mr. Redman:

Well, he can aspire to that. Thank you, Mr. President. Are there any other questions?

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EXPRESSIONS OF APPRECIATION

Resolution No. 88-126

JAMIE CANO

WHEREAS Jamie Cano has served as President of the Council of Graduate Students during the past year; and

WHEREAS he has carried out his assignments in an outstanding manner; and

WHEREAS Jamie has worked diligently and with sensitivity in order to bring matters and concerns of special interest to graduate students to the attention of this Board; and

WHEREAS his resolve, dedication, and support of this University has been evidenced in innumerable ways over the past year:

NOW THEREFORE

BE IT RESOLVED, That this Board expresses to Jamie Cano their thanks and appreciation for his dedicated leadership and service to The Ohio State University, and wishes him success in the future.

May 4 and 5, 1988 meeting, Board of Trustees

EXPRESSIONS OF APPRECIATION (contd)

STEPHEN SASALA

WHEREAS Stephen Sasala has served as President of the Interprofessional Student Council during the past year; and

WHEREAS he has carried out his assignment in an exemplary manner; and

WHEREAS his leadership in representing the often diverse interested professional students has been useful in identifying their concerns and interests to the Board:

NOW THEREFORE

BE IT RESOLVED, That this Board expresses to Stephen Sasala its sincere appreciation and gratitude for a job well done and conveys to him its best wishes for success in the future.

SCOT ZELLMAN

WHEREAS Scot Zellman has served as President of the Undergraduate Student Government during the past year; and

WHEREAS he has carried out his assignment in an exemplary manner; and

WHEREAS his leadership in representing the interest of students has been positive in nature as has been his communication with both the Board of Trustees and the Administration:

NOW THEREFORE

BE IT RESOLVED, That this Board expresses to Scot Zellman its sincere appreciation and gratitude for a job well done and conveys to him its best wishes for success in the future.

JIM SCHAEFER

WHEREAS Jim Schaefer has served as Vice President of the Undergraduate Student Government during the past year; and

WHEREAS he has carried out his assignment in an exemplary manner; and

WHEREAS his leadership in representing the interest of students has been positive in nature as has been his communication with both the Board of Trustees and the Administration:

NOW THEREFORE

BE IT RESOLVED, That this Board expresses to Jim Schaefer its sincere appreciation and gratitude for a job well done and conveys to him its best wishes for success in the future.

Upon motion of Mr. Teaford, seconded by Mrs. Bowser, the Board of Trustees adopted the foregoing resolution by unanimous voice vote.

May 4 and 5, 1988 meeting, Board of Trustees

APPRECIATION TO EDMUND C. REDMAN

President Jennings:

Mr. Chairman, I have one more small assignment. Knowing that you're not quite done yet, that this isn't quite over until May 13, you still have some duties, Sir -- Ohio State would like to recognize, in all seriousness, your great contributions to the University. It has been a great nine years, and for seven of those nine years I have very much enjoyed working with you. It is particularly gratifying this year when we had so little controversy in the University while you were Chairman. And I am absolutely confident that if Central Billing also doesn't work, that we will call you back and ask you to be part of it. Those more senior members of the Board will recognize that not only did you provide great service to the University in terms of Central Billing, but also in your Hospitals Board membership. In addition, early on in your tenure, you were questioning us greatly on how we were making easements in the University, and had some problems in that regard straightened out.

I will mention also, that you are a long-time alumni of The Ohio State University. I think it is now sixty one years since you have graduated from Ohio State. And I think it is worth noting that as you look at the young people today, they are fine young people. They are much better behaved than the Class of 1927, who, for President William Oxley Thompson, that class gave him the great privilege of electing a cow as the homecoming queen for Ohio State. And noting that you were leading that --

Mrs. Bowser:

Leading the cow?

President Jennings:

Leading the campaign to elect a cow. Now for the students in the room, I am not recommending that for this student body. We would like to present you with this small token of our appreciation -- a gavel that you might cherish. And we thank you very much.

President Jennings presented Mr. Redman with a gavel, inscribed as follows, in recognition of outstanding service as a member and chairman of the Board of Trustees:

EDMUND C. REDMAN

in appreciation of his service

to the Board of Trustees of

The Ohio State University

Member 1979-1988

Chairman 1987-1988

May 4 and 5, 1988 meeting, Board of Trustees

APPRECIATION TO EDMUND C. REDMAN (contd)

Mr. Redman made the following statement:

Thank you, Mr. President. I will indeed cherish that. You said to keep the meeting short and I did mention that I had an hour and a half speech to make, so if you want to sit back and relax I will proceed. It would be remiss on my part if I failed to make a few remarks about nine years here, during which time we've had: two presidents, three provosts -- and this is not necessarily in the order of their importance -- three athletic directors, three football coaches, we've installed a hospitals board, hospitals administrator and we've begun the building of a cancer hospital. And regardless of the turmoil that went with all of these matters, I want to say that I applaud the Governors, both Governor Rhodes and Governor Celeste, for their appointments to this Board. I think we have all worked together well, that we've helped each other, we've been supportive, and I think if that tradition is carried on, that is the best that I can ask. And with that Mr. Chairman, I will bid you adieu.

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REPORT - UNIVERSITY'S INVESTMENT PORTFOLIO

Resolution No. 88-127

RESOLVED, That the report on the University's Investment Portfolio, dated April 15, 1988, as submitted to the Fiscal Affairs Committee of the Board of Trustees, be received and filed with the official records of the Board.

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**THIRD QUARTER REPORT -
1987-88 CURRENT FUNDS BUDGET**

Resolution No. 88-128

RESOLVED, That the third quarter report on the 1987-88 Current Funds Budget, dated May 6, 1988, as submitted to the Fiscal Affairs Committee of the Board of Trustees, be received and filed with the official records of the Board.

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**QUARTERLY REPORT -
WAIVERS OF COMPETITIVE BIDDING REQUIREMENTS**

Resolution No. 88-129

RESOLVED, That the quarterly report on the Waivers of Competitive Bidding Requirements, dated January through March 1988, as submitted to the Fiscal Affairs Committee of the Board of Trustees, be received and filed with the official records of the Board.

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May 4 and 5, 1988 meeting, Board of Trustees

Thereupon the Board adjourned to meet Thursday, June 2, 1988, at The Ohio State University Fawcett Center for Tomorrow, Columbus, Ohio, at 6:30 p.m.

Attest:

Madison H. Scott
Secretary

Edmund C. Redman
Chairman

APPENDIX IV
Degrees Conferred at
THE OHIO STATE UNIVERSITY
COMMENCEMENT CONVOCATION
June 10, 1988

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Commencement Speaker

Erich Bloch **Doctor of Science and Engineering**

Erich Bloch is director of the National Science Foundation (NSF), the federal agency responsible for strengthening our nation's scientific and engineering research and education capabilities. He has held that position since his 1984 confirmation by the U.S. Senate and oversees an annual budget of \$1.7 billion. During his three years of leadership, the NSF has emerged as a major force in helping our nation regain its competitive edge in science and technology.

After receiving his degree in electrical engineering from the University of Buffalo in 1952, he began work at IBM in what was then the new field of computer research. His contributions were major factors in IBM's emergence as a leader in the computer industry, and he had risen to the position of vice president for technical personnel development before he left for the NSF.

Under Bloch's direction, the NSF established several innovative programs that have had significant impact on higher education and the American science community. Among these programs are the engineering research centers at various universities, which are strengthening the United States' competitive technological base. Ohio State is the site of one of these centers—the Engineering Research Center for Net Shape Manufacturing.

He also has garnered unprecedented support from the White House for a plan to double the NSF budget. These additional funds will be used primarily to enhance the academic enterprise across the country.

Ohio State welcomes him as speaker for this 304th commencement and is proud to confer upon him an honorary degree.

Recipients of Honors

Philip Johnson Doctor of Arts

Architect, historian, and critic Philip Johnson has had considerable influence on the profession of architecture. While he is credited with bringing Modernism to America, his career has been marked by a refusal to limit his work to a single style.

A native of Cleveland, Johnson earned his Bachelor of Arts and Bachelor of Architecture degrees from Harvard University and attended the Harvard Graduate School of Design.

As director of the Department of Architecture at the Museum of Modern Art during the 1930s, he curated important shows and contributed to books that introduced Modernism to the public. He also encouraged noted European architects to settle in this country.

Johnson used Modernism throughout much of his career and designed some of the greatest American Modernist buildings. Most notable are his Glass House, built in 1949 and one of the best known works of architecture in the world, and the Seagram's Building (co-designed with architect Mies van der Rohe) in 1954-58.

He eventually integrated other design elements as well. For example, he reintroduced decoration into many projects, established a strong connection with Minimalist sculpture, and ultimately broke with Modernism altogether and returned to historical allusions in architectural design. Today his buildings can be found in most major cities in a variety of contexts across the country.

The importance of his work has been widely recognized—among his awards are the 1978 Gold Medal from the American Institute of Architecture and the first Pritzker Architecture Prize, instituted in 1979. The University is pleased at the opportunity to honor him for a lifetime of distinguished achievement.

Roy Lichtenstein Doctor of Fine Arts

Artist Roy Lichtenstein, an Ohio State alumnus, has attained great distinction as a scholar and master of contemporary art. His work is represented in nearly every major collection of modern art, both nationally and internationally.

He earned his Bachelor and Master of Fine Arts degrees at Ohio State and then spent 13 years painting and working as a graphic and engineering draftsman, window designer, and sheet metal designer. He also taught at several institutions including Ohio State, the New York State College of Education, and Rutgers University.

The turning point in his career was his first solo exhibition in 1962 at the Leo Castelli Gallery in New York City. From that time on, he devoted himself full time to artmaking, becoming a major force in the Pop Art movement and drawing inspiration from comic strips and advertisements, as well as art history itself.

He has received innumerable awards, commissions, and grants, has held international solo exhibitions, and in 1970 was elected to the American Institute of Arts and Letters. Among his recent works are *Mural With Blue Brushstroke*, in New York City, which was written about in a 1986 issue of *LIFE* magazine; *Salute to Painting*, at the Walker Art Center in Minneapolis; and *Brushstrokes in Flight*, at Port Columbus International Airport. The University welcomes him back as a distinguished alumnus and takes pride in his professional accomplishment.

Recipients of Honors

Toni Mendez Distinguished Service Award

Toni Mendez, now president of her own New York literary and licensing agency, began her career as a dancer and choreographer. She created several shows in conjunction with newspaper cartoonists—projects which proved to be a segue into her present agency work.

She has represented not only individuals but also publishing companies, newspaper syndicates, and government agencies in book and licensing projects. Among her highly successful projects in television, print, and licensing are *Space Cadet*, Milton Caniff's *Steve Canyon*, B. Kliban's *Cat*, and the federal government's Smokey the Bear program. Her television projects include working with Norman Lear's production company, Tandem, on the television series *All in the Family*.

While not an alumna, she has been very involved with Ohio State and has given generously of her time, talent, and resources to the University. In 1977, Mendez was instrumental in establishing Ohio State's Library for Communication and Graphic Arts. Since then she has added her papers to the collection—papers that reveal the inner workings of the comics publishing and merchandising industry.

Mendez was a charter member of the National Campaign Committee for The Ohio State University Campaign, helped plan the University's Festival of Cartoon Art, and has been a guest lecturer for advanced-level fiction writing classes. She has also encouraged support for the University in artistic, literary, and media circles in New York and across the country. Ohio State is indeed indebted to her for her enthusiastic and innovative support.

The Graduate School

Dean: Roy A. Koenigsnecht

Doctor of Musical Arts

Frank E. Hanson III, Whitewater, WI;
B.S. (University of Akron); M.Mus.; *Music*
Dr. Richard E. Burkart

Doctor of Philosophy

Helen Holupka Ahlborn, Marysville; B.A.
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Dr. John C. Gibbs

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M.B.A., M.A. (University of Toledo);
Business Administration
Dr. Jeffrey D. Ford

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M.A.; *Interdisciplinary Programs*
Dr. William Moore, Jr.

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Dr. Thomas Cooley

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Dr. Urho A. Uotila

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Maria Alejandra Zanetta, Buenos Aires, Argentina; *Romance Languages and Literatures*

Mary Gardina Zeitler, Westerville; B.S.Ed. (Ohio University); *Education*

Linfeng Zhou, Fuzhou, P.R.C.; B.A. (Fujian Normal University); *History*

Janice Zylko, Cleveland; B.A. (Cleveland State University); *Education*

Master of Business Administration

Yuichi Abe, Kamikita-machi, Japan; B.S. (Bowling Green State University); *Business Administration*

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Janet Lee Swilik, Westlake; B.S.B.A. (Bowling Green State University); *Business Administration*

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Ricky Neal Tacy, Fort Lauderdale, FL; B.A. (Florida State University); *Business Administration*

Dahlia Tang, Paris, France; *Business Administration*

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Donna Varner, Columbus; B.S.B.A. (Ashland College); *Business Administration*

Charles DeWayne Walton, Hebron; B.S.M.E., M.S. (University of Cincinnati); *Business Administration*

Janis Anita Washington, Richmond, VA; B.A. (University of Virginia); *Business Administration*

Sheila Renae Watters, Lawrenceville, VA; B.A. (College of William and Mary); *Business Administration*

Glenn Allen Weaver, Springfield, VA; B.S. (West Virginia University); *Business Administration*

Gary LaVern Wedlund, Columbus; B.F.A. (Columbus College of Art & Design); *Business Administration*

Mark Andrew Weitzel, Mansfield; B.S.B.A. (Bowling Green State University); *Business Administration*

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Grant Allen Westbrook, Columbus; B.A. (Capital University); *Business Administration*

Eric John Wiegandt, Dublin; B.A. (Wittenberg University); *Business Administration*

Cheryl Diane Wiggins, Mason; B.B.A. (University of Cincinnati); *Business Administration*

John Jeffrey Winch, Minster; B.B.A. (Southern Methodist University); *Business Administration*

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Robert Anthony Witzman, West Chester; B.S.I.S.E.; *Business Administration*

Frederic Paul Wolff, Fairborn; B.S. (University of Colorado); *Business Administration*

Debora Wright, Middletown; B.S. (Fayetteville State University); *Business Administration*

Sandra Jones Wu, Worthington; B.S.; *Business Administration*

Gretchen Lynn Yates, Columbus; B.S. (Purdue University); *Business Administration*

Franklin Hess Yoho, South Charleston, WV; B.A. (Washington & Jefferson College); *Business Administration*

Douglas Christian Yost, Seattle, WA; B.A. (University of Washington); *Business Administration*

Teresa Jayne Ziegler, Columbus; B.S. (The Pennsylvania State University); *Business Administration*

Jerome Zisserson, Rockville, MD; B.S., B.A. (University of Maryland); *Business Administration*

Master of City and Regional Planning

Tae Sun An, South Korea; B.A. (Sung Kyun Kwan University); *City and Regional Planning*

Lotfi Braham, Teboulba, Tunisia; B.S.C.E., M.S.; *City and Regional Planning*

John Andrew Bricker, Columbus; B.S.Nat.Res.; *City and Regional Planning*

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Abdel Hamid Abdel Hamid El-Kamhawy, Cairo, Egypt; B.S.Arch. (Zagazig University); *City and Regional Planning*

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Mizan Bin Hitam, Melaka, Malaysia; B.A. (University of Southwestern Louisiana); *City and Regional Planning*

Shin-Ho Kim, Seoul, South Korea; B.P.A., M.P.A. (Yonsei University); *City and Regional Planning*

Whan Chull Kim, South Korea; B.A., B.A. (Sung Kyun Kwan University); *City and Regional Planning*

Lisa Lee Leitzell, Dublin; B.S.; *City and Regional Planning*

Pervaiz Bashir Malik, Lahore, Pakistan; B.Sc. (Engineering University); *City and Regional Planning*

William Leslie McKay, Jr., Hampton, VA; B.A. (Virginia Technical University); *City and Regional Planning*

Emmanuel Ifeanyi Mogbolu, Lagos, Nigeria; B.S. (University of Nigeria); *City and Regional Planning*

Jeng-Ying Shieh, Taiwan, R.O.C.; B.E. (Feng-Chia University); *City and Regional Planning*

William Lynn Twitty, Lancaster, SC; B.S. (Morris College); *City and Regional Planning*

Michael Ray Wood, Columbus; B.A.; *City and Regional Planning*

Master of Fine Arts

Vincent Lucieu Brosseau, Tours, France; B.F.A. (Julliard School); *Dance*

Varlo Ray Davenport, Jr., Payson, UT; B.S. (Southern Utah State College); *Theatre*

James Patrick Flahaven, Duncanville, TX; B.F.A. (North Texas State University); *Art*

John Joseph McCutcheon, Columbus; B.F.A. (Columbus College of Art and Design); *Art*

Robin Lea Pyle, West Lafayette, IN; A.B. (Princeton University); M.A. (University of Oregon); *Theatre*

John Allsten Sargent, Columbus; B.A. (Trinity College); *Art*

Susan S. Van Dyke, Columbus; B.S. (University of Massachusetts); *Theatre*

Master of Health Administration

Keith Norman Alexander, Ashland; B.S.; *Hospital and Health Services Administration*

Larry Alan Anstine, Newark; B.S.Bus.Adm.; *Hospital and Health Services Administration*

Barbara Jane Balsley, Salem; B.A. (Hiram College); M.P.H. (University of Minnesota); *Hospital and Health Services Administration*

Gregory William Beham, Columbus; B.S. (Miami University); *Hospital and Health Services Administration*

Michael Alan Belmont, Wooster; B.A. (Denison University); *Hospital and Health Services Administration*

Karen Sue Brown, Sandusky; B.S. (Miami University); *Hospital and Health Services Administration*

Charles Adam Danneker, Columbus; B.S. (Union College); *Hospital and Health Services Administration*

John Charles Elliott, Ada; B.S.B.A. (Ohio Northern University); *Hospital and Health Services Administration*

Erika Marie Gadomski, Broadview Heights; B.S.Agr.; *Hospital and Health Services Administration*

Karen Ann Jennings, Sunbury; B.S. (University of Wisconsin-Madison); M.S.; *Hospital and Health Services Administration*

Cynthia Lynn Johnson, Sunbury; B.B.A. (University of Cincinnati); *Hospital and Health Services Administration*

John Jay Knox III, Marietta; B.S.A.L.Hth.Prof., B.S.; *Hospital and Health Services Administration*

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Susan J. Reynolds, Akron; B.S.Bus.Adm.; *Hospital and Health Services Administration*

Diana Lynne Rogers, Minerva; B.A. (Malone College); *Hospital and Health Services Administration*

Dennis Floyd Roquemore, Tallmadge; B.M.Ed. (Ohio University); M.A. (Ball State University); *Hospital and Health Services Administration*

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Heidi L. Smith, Wadsworth; B.A. (The College of Wooster); *Hospital and Health Services Administration*

William C. Smith, Benton, KY; B.S. (University of Louisville); *Hospital and Health Services Administration*

Donald Brent Trembly, Spring Valley; B.A. (Saint Leo College); *Hospital and Health Services Administration*

S. Michael Yocco, Mansfield; B.S. (The University of Akron); *Hospital and Health Services Administration*

Master of Labor and Human Resources

Amy Elizabeth Black, Dublin; B.S.Bus.Adm.; *Labor and Human Resources*

Linda Lee Bowen, South Point; B.A.; *Labor and Human Resources*

Stacey Lynn Brandt, Columbus; B.A. (University of Michigan); *Labor and Human Resources*

Thomas Philip Kruglinski, Columbus; A.B. (Syracuse University); *Labor and Human Resources*

Barbara Jean Kyle, Columbus; B.S., B.S. (Franklin University); *Labor and Human Resources*

Thomas Patrick McGinty, Whitehall; B.S.Ed.; *Labor and Human Resources*

Michael Roger Moore, Parma; B.A.; *Labor and Human Resources*

Cherachit Raka, Bangkok, Thailand; B.A., M.P.A. (Thammasat University); *Labor and Human Resources*

Randall Herb Schimmoeller, Lima; A.A., B.S.; *Labor and Human Resources*

Bradley Walter Schramek, Cleveland; B.A.; *Labor and Human Resources*

John Joseph Tornes, Upper Arlington; B.A. (University of Steubenville); M.Div. (Athenaeum of Ohio); *Labor and Human Resources*

Master of Landscape Architecture

Robert Lee Wiley, Nelsonville; B.S. (Ohio University); *Landscape Architecture*

Master of Music

Cheryl Ann Hoover, Tallmadge; B.S. (Roberts Wesleyan College); Diploma (Moody Bible Institute); *Music*

Ling-Ru Kuei, Taipei, Taiwan, R.O.C.; B.S. (Tung-hai University); *Music*

Deborah Blunt Barrett Price, Burnt Hills, NY; B.M. (Baldwin-Wallace College); *Music*

Linda Evelyn Rebillard, Winsted, CT; B.A. (University of New Hampshire); *Music*

Andrew Harold Snedeker, Grand Rapids, MI; B.M. (Baldwin-Wallace College); *Music*

Laurie Ann Stelter, Mankato, MN; B.S. (Mankato State University); *Music*

Fred James Wilcox, Fairview Park; B.A. (Yale University); *Music*

Master of Public Administration

David Reed Alexander, Columbus; B.A. (Muskingum College); *Public Administration*

Maria Andrea Carroll, Columbus; B.A. (University of Dayton); *Public Administration*

Steven Lawrence Faulkner, Columbus; B.A. (Michigan State University); *Public Administration*

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Master of Science

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Khleef Odeh Al-Mousa, Jordan; B.Sc. (Yarmouk University); *Civil Engineering*

Ahmed Othman Al-Qasabi, Riyadh, Saudi Arabia; B.Sc. (King Saud University); *Civil Engineering*

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Brian Andrew Berry, North Ridgeville; B.S.; *Botany*

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Cheri Lee Koscielny, Parma; B.S.W. (Capital University); *Social Work*

Mary M. Kukainis, Cincinnati; B.S.W. (University of Cincinnati); *Social Work*

Barbara Ellen Lantz, St. Clairsville; B.S.Soc.Wel.; *Social Work*

Kristi Dianne Larimer, Logan; B.S.S.W. (Ashland College); *Social Work*

Julie D. Lee, Indianapolis, IN; B.S.W. (Ball State University); *Social Work*

Nina Lewis, Columbus; B.A.; *Social Work*

Keith Gilmore Lindeman, Columbus; B.S. (Defiance College); *Social Work*

Suzanne Lohrer, Springfield; B.A. (Capital University); *Social Work*

Patricia Lyons-Smith, Columbus; B.A. (Wilberforce University); *Social Work*

Robin Renee Mathews, Dayton; B.A. (Wright State University); *Social Work*

Christina Mausser, Wickliffe; B.A. (Miami University); *Social Work*

Christie Echard McBride, Columbus; B.S.Soc.Wel.; *Social Work*

Lori Sue McKenna, Sandusky; B.Ed. (University of Toledo); *Social Work*

Shauna S. McMurtrey, Columbus; B.A. (Ohio Northern University); *Social Work*

Stephanie Harnett Mendelson, Bexley; B.S.Ed.; *Social Work*

Anita Wyner Miller, Wooster; B.S.Soc.Wel.; *Social Work*

David Duane Miller, Wooster; B.A. (Cincinnati Bible College); *Social Work*

Rosa Angela Minniti, Cincinnati; B.S.; *Social Work*

Deborah Ann Clark Nixon, Worthington; B.S. (Morgan State University); *Social Work*

Daryl Jane Odom, Newark; B.A. (Lamar State University); *Social Work*

Cynthia Ellen Paetz, Newark; B.S.W. (Valparaiso University); *Social Work*

Gregory Alan Pahren, Dayton; B.A.S.W. (Wright State University); *Social Work*

Elaine V. Palmer, Columbus; B.S. (Bowling Green State University); *Social Work*

Mary Elizabeth Parrett, Columbus; B.S. (Manchester College); *Social Work*

Kimberly Ann Paul, Cuyahoga Falls; B.S.S.W. (Bowling Green State University); *Social Work*

Thomas Joseph Pelland, Akron; B.S.Soc.Wel.; *Social Work*

Edward Charles Plihall, Fremont; B.A. (Ohio University); *Social Work*

Melissa Michelle Raskay, Fletcher; B.A. (Miami University); *Social Work*

Mary Margaret Roberts, Findlay; B.S.S.W. (Bowling Green State University); *Social Work*

Lynne Meyer Rose, Columbus; B.S.W. (Capital University); *Social Work*

Roberta Lynn Ross, Delaware; B.A. (Ohio Dominican College); *Social Work*

Nina Lee Samuels, Hazlehurst, MS; B.S.W. (Jackson State University); *Social Work*

Ida M. Schiaroli, Reading, PA; B.A. (Albright College); *Social Work*

Caryl Jo Schull, Shelby; B.A. (Ohio Dominican College); M.A.; *Social Work*

Edda Niebel Schurter, Columbus; B.S.Ed., B.A., M.A.; *Social Work*

Alana Meryle Shindler, Columbus; B.A. (San Francisco State University); *Social Work*

Susan Marie Slone, San Jose, CA; B.A. (University of Notre Dame); *Social Work*

Gretchen Anaple Smith, Columbus; B.A. (Muskingum College); *Social Work*

Helen Faith Snodgrass, Marshallville; B.S.W. (University of Akron); *Social Work*

Lisa Marie Stromeier, Columbus; B.S. (Georgetown College); *Social Work*

Dumisani Gaylord Thabede, Johannesburg, Union of South Africa; B.A.Hons. (University of Zululand); *Social Work*

Doris Helena Toland, Columbus; B.A.; *Social Work*

Julie Ann Toth, Warren; B.A. (Saint Mary's College); *Social Work*

Noreen Ella White, Columbus; B.S.C. (Ohio University); M.A.; *Social Work*

Richard Albert White, Baltimore, MD; B.S. (Morgan State University); *Social Work*

Sharon Renee Whitehead, Silver Spring, MD; B.S.W. (Morgan State University); *Social Work*

Ella Mae Williamson, Coward, SC; B.A. (Morris College); *Social Work*

Marla S. Yoder, Aurora; B.S. (Eastern Mennonite College); *Social Work*

Teri Perkins Zeise, Columbus; B.A. (Capital University); *Social Work*

Colleges of the Arts and Sciences

Chairman, Coordinating Council of Deans: Joan Huber

Acting Dean for Undergraduate Studies: Donald W. Good

The Colleges of the Arts and Sciences, a federation of five colleges, includes:

College of the Arts
College of Biological Sciences
College of Humanities
College of Mathematical and Physical Sciences
College of Social and Behavioral Sciences

College of the Arts

Acting Dean: Robert L. Arnold

Bachelor of Arts

Stephanie Jane Brinsley, Newark
Timothy Michael Canavan, Lima
Ann Elizabeth Cleminshaw, North Lawrence
Rebecca Joy Copeland, Worthington
Catherine Louise Copich, Youngstown
Catherine Cope Cupps, Columbus
Marguerite Consuelo DeSelms, Columbus
Sean William Ferguson, Columbus
Robert Douglas Grant, Columbus
Ty C. M. Hoffman, Crestline
Nancy Carol Karrick, Columbus
Ty Howard Kistler, Clyde
Cheryl Lynn Knisley, Grove City
Karen Sue Kraig, Cleveland
Victor John Kruse, Defiance
Andrea Virginia Macioce, Pataskala
Christine Rose Mannix, Cincinnati
Diane Marie Markusic, Columbus
Lois Miriam Moon, Cleveland Heights
Jocelyn Ann Nevel, Columbus
Traci Lynn Ostand, Cincinnati
Joseph Frank Scarpitti, Columbus
Greg Allen Veatch, Utica
Evelyn Rose Warr, Toledo
Robert Bullard Weaver, Jr., Dayton
Gary Lee Wenneker, Worthington

Bachelor of Fine Arts

Janine Marie Aloisi, Monessen, PA
Michael Todd Arrigo, Pickerington
John Christopher Baum, Mt. Sterling
Gregory William Bryan, Reynoldsburg
Jacqueline Beth Chabier, Toledo
Jacqueline Mary Collins, Delaware
Timothy Raymond Dougherty, Columbus
Dianna Drosos, Columbus
Thomas Louis Dubanowich, Janesville, WI

Michael Joseph Ferrari, Avon Lake
Shelley Ann Gilbert, Lima
Robert Caldwell Glover, Jr., Cincinnati
Russell Eugene Hall, Canton
Richard Lawrence Harper, Columbus
Melissa Jane Heath, Ashtabula
Karen Brown Hicks, Delaware
Philip Leighton Judy, Columbus
William Robert Kaiser, Columbus
Mitsuna Kawamura, Dublin
Bradley Lee Lee, Mansfield
Rebecca Michele Manning, Columbus
Kelli Ann McNeal, Centerville
Gregory Thomas Molnar, Columbus
Martin Louis Nowak, Sparta, NJ
Donald Odili Oditia, Columbus
Henry Johnson Preston III, Columbus
Richard Tyrone Schafrath, Burton
Deborah Snyder Seaberg, Eaton
Scott Michael Short, Marion
Zachary Charles Smith, Warrensville Heights
Karen Beth Solomon, Meadowbrook, PA
Heidi Theresa Sommer, Columbus
David Edward Spondike, Mentor
Dina Louise Spybey, Columbus
Robbin Renée Meese Stander, Beavercreek
Rebecca Jane Stephenson, Berea, KY
Deborah Ann Stewart, Cincinnati
Jon Richard Studer, Shelby
Timothy Shannon Willson, Worthington
Keith Joel Windle, Westerville

Bachelor of Music

J. Christine Chiriboga, Mentor
Carmen Crystal Cool, Englewood
Martin David Jenkins II, Worthington
Deborah Christine Moroz, Middletown
Kaya Chia-Yeh Shih, Columbus
Andrea Trbovich, Massillon
Michael Louis Vild, Columbus
Peter James Waldman, Columbus
Eugene Ayers Walker, Columbus
Randy Ann Wolvek, Brooklyn, NY

Bachelor of Art Education¹

Jenifer Kae Bopp, Columbus
Caroline J. Csuri, Columbus
Lisa Ann Koenigsberg, Columbus
Carole Ann Wilson, Columbus

Bachelor of Art Education²

Alice Ruth Bordenkircher, Lewisburg
Jayme Lee Duris, Pataskala
Dana Kathryn Koopman, Dayton
Sheryl Rae McKinney, Troy
Mary Ellen Myers, Bucyrus
Carmel Ann Shearn, Columbus
Michael Joseph Sparto, Cincinnati

¹Offered by the College of the Arts

²Offered by the College of the Arts and the College of Education

Bachelor of Music Education²

Tina Venette Bayles, Willshire
Norma Beebe, Columbus
Laurie Ann Bickerdt, Hilliard
Michelle Linn Brittain, Dayton
Stuart Andrew Collins, Worthington
Karen Marie Custer, Cincinnati
Karol Elizabeth Dalglish, Medina
William Jefferson Edmons, Milford
Kathleen Diane Guy, Beach City
Carl Allen Hlavaty, Hinckley
Paige Marie Karnes, Galloway
Kimberly Kay Kuhlman, Van Buren
Douglas John Marrah, Worthington
Beth Ann McFarland, West Union
Matt Lloyd Messersmith, Avon Lake
Rodney Lee Miller, New Carlisle
Susan Caroline Pfouts, Oregon
Brian Dale Stevens, Troy
Barbara Michelle Voytko, Alliance
Robert MacLeish Watts, Zanesville
Edward Everette Wiles, Columbus

Bachelor of Science in Industrial Design

Barbara Ann Austin, Bolivar
Marilyn Rodgers Bahney, Put-in-Bay
Megan Anne Bamberger, Phoenixville, PA
Andrew Charles Bartlett, San Diego, CA
Michael Anthony Bills, Delaware
Patricia Ann Bode, Vienna, WV
Lisa Anne Borofsky, Moreland Hills
Gina Lynne Brown, Trail Run
Teresa Lynn Brown, Woodsfield
Donald Joseph DeCaprio, Highland Heights
William Mark Eilenfeld, Mansfield
Sue Marie Fulton, Waterford
Bonnie Lee Windsor Gahriss, Worthington
Gregory Alan Gierhart, Lima
Robert Daniel Jump, Tiffin
Raymond Peter Kuhar, Willoughby Hills
James Craig Martin, Urbana
Melissa Kay Moeller, Galion
Craig David Moser, Miami, FL
Sheryl Ann Mulne-Derrow, Columbus
Tina Lynn Natoli, Delaware
Kimberly A. Niekamp, Minster
Patrick Joseph Pavoni, Columbus
Jane Elizabeth Ries, Whitehall
Peter Dean Rimback, Wheaton, MD
Cheryl Lynn Roder, Port Clinton
Scott Evan Russell, Chagrin Falls
Susan GERALYN Schlembach-Miller, Defiance
Joel Martin Smith, South Vienna
Lori Cathleen Swartz-Reeder, Dayton
Russell Melinda Thackery, Columbus
Tammy Lynn Wilder, Middletown
William Roy Wilkinson, Akron

College of Biological Sciences

Dean: William A. Jensen

Bachelor of Arts

Dennis Gerard Furlong, Fremont
Raymond William Hale, Columbus
Daniel Jay Kranitz, Akron
Lori Lynn Rogers, New Philadelphia
Victor Daniel Wall III, Columbus

Bachelor of Science

Arti Bajpai, Columbus
Michael Anthony Balogh, Mentor
Kevin Eric Beato, Cincinnati
Jane Ann Beebe, Upper Arlington
Michael Scott Bloom, Wyoming
Andrew Brian Bokor, Dayton
Gregory Charles Booton, Columbus
Larean Denise Brandon, Columbus
Milinda Dee Bray, Grosse Ile, MI
Gregory Earl Carlson, Xenia
Jeffrey Scott Castel, Olmsted Township
Heather Lynn Childers, Buffalo, NY
Karen Denise Cole, Virginia Beach, VA
Martin Stewart Collier, Marysville
Randolph Jay Cordle, Columbus
Constance Curren, North Ridgeville
Boyd Delanor Curtis, Massillon
Holly E. Schaufler Daniels, Canton
Julie Renee Daub, Sagamore Hills
Patricia Helena David, Coolville
Christopher R. Delagrange, Cuyahoga Falls
Bradley Earl Dickson, Whitehouse
David Robert Dietrich, Van Wert
Nicola Marie DiRito, Chicago, IL
Suzanne Renee Doinoff, Wooster
Laura Ann Duren, Tallmadge
Robert Joseph Fletcher, Warren
Lynn Carley Freck, Cincinnati
Sylvia Eleny Fronista, Huber Heights
Frank Michael Gambish, Amherst
Robert David Garland, Cincinnati
Raouf Samir Gharbo, Worthington
Anthony George Gray, Akron
Ann Marie Greenwald, Columbus
Kevin Bruce Hallberg, Westerville
Daphne Deanne Harden, Dayton
William Edward Harris, Whitehall
Ami Karen Hovermale, Circleville
Kathleen Mae Jeffery, Upper Arlington
Mark Efthimios Juras, Chicago, IL
Mary Ann Kelly, Euclid
Leanne Kerns, Independence
Deniz Renz King, Jr., Worthington
Dennis Michael Kolb, Cincinnati
Viktor Erik Krebs, Huron
Rebecca Ruth LaRoe, Toledo
Silene Mirel Leibowitz, Worthington
Glenn Allen Loomis, Troy
Michael Allen Martin, Dayton
Kerry Lee Mattingly, Cincinnati
James David McDaniel, Belbrook
Kelly Ann McKay, Akron
Mary Margaret McPeck, Perry
Lisa Christine Meyer, Sandusky
Bonnie Jill Miller, Columbus
Cynthia Elizabeth Miller, Columbus
Redonda Gail Miller, Wheelersburg
John Eric Mixer, Burton
Gregory Matthew Mlachak, Euclid
Asma Mobin-Uddin, Worthington
Anna Christine Morris, Mentor
Samuel David Narotski, Akron
Brian Andrew Nault, Wooster
David Raymond Oldenburgh, Parma
David Charles Olson, Canton
Maryann Elizabeth Payne, Bethel Park, PA
Christina Louise Pippin, Worthington
Danilo Polonia, Whitehall
Arturo T. Presas, Columbus
Callie Anne Prugh, Columbus
John Robert Quigley, Springfield
Karen Sue Quigley, Piqua
Eydie Anne Radugge, Bexley
Rhonda Leigh Rambo, Crooksville
Kimberly Renee Ramsey, Bristol, TN
Victoria Rentel, Columbus
Bradley Jarold Riemenschneider, Rocky River
Richard Thomas Rindfuss, Niles
Elizabeth Samiha Rosen, Columbus
Kimberly Sue Royal, Columbus
Kathy Ann Royle, Hudson
Kimberly Sue Ruona, Ashtabula
Suzanne Russo, Macedonia
Robin Lisa Shanfeld, Philadelphia, PA
Grace Hsin-Chun Shih, Upper Arlington
Marie Ann Simon, North Royalton
Larry Edward Smith, Mansfield
Mark Todd Smith, Nashport
Steven Wayne Smith, Fremont
Geoffrey David Snyder, Lake Milton
David Kenan Solacoff, Upper Sandusky
Roderick Lawrence Soriano, Columbus
Kelly Rae Stamm, Ravenna
Blake Galloway Sturgis, Chardon
Kwang I. Suh, Columbus
Blythe Grace Thomson, Edmonton, Alberta, Canada
Patrick Farrell Timmins III, Columbus
Matthew Thomas Tobin, Willoughby Hills
David Alan Tonnies, Lake Milton
Daniel Anthony Tramuta, Columbus
Theresa Marie Uhl, Cleveland
Linda Arlene Unrue, Wapakoneta
Karen Rochelle Vigder, Dayton
Victor Daniel Wall III, Columbus
Barbara Ann Wallenhorst, Fairview Park
Keith Thomas Wendel, Sardinia
Kimberly Lynn Whittington, Upper Arlington
Victoria Lynn Wills, Honolulu, HI
Mark Charles Witte, Cincinnati
Shari A. Yeh, Westlake
Zeus John Yiamouyiannis, Delaware
Lisa Ann Youngblood, Ashland

College of Humanities

Dean: G. Micheal Riley

Bachelor of Arts

Matricia Von Ables, Xenia
Michael Todd Allen, Willard
Sherry Elizabeth Altizer, Centerburg
Ruby Mae Anderson, Columbus
Windsor Lynn Anderson II, Warren
Elizabeth Ann Ardussi, Rocky River
Deborah Ann Bannister, Perrysburg
Elizabeth Lynne Beavers, Atlanta, GA
Froukje Margaret Beynen, Upper Arlington
Violette Bishara, Columbus
Daniel Patrick Bonarrigo, Columbus
Jacqueline Marie Booth, Columbus
Tracey Marie Brand, Columbus
Mania Cecilia Brenner, Columbus
Jason Kenneth Brown, Cincinnati
Mark Raymond Brown, Worthington
Deanna Eileen Brusadin, Worthington
Amy Louise Burnett, Middletown
Gail Estelle Burns, Hinckley
Susan Jane Carey, Columbus
Douglas Ballard Carr, Logan
Susan Ann Carson, Akron
Sharon Moore Chambers, Columbus
Jeffery Allen Chervenak, Shadyside
Janet Elaine Cloyd, Columbus
John Thomas Cocklin, Hartsville
Susan M. Cox, Manchester
Susan Marie Cruza, Hicksville
Peggy Susan Cunningham, Houston, TX
Scott Cameron Daniels, Bay Village
Sally L. Davis, Cincinnati
Jeffrey Edward Deist, Akron
Beth Ann Dible, London
Joseph Patrick Doerr, Toledo
Michelle M. Donaldson, Rome, NY
Timothy Adam Doyle, Gahanna
Julie Anne Driscoll, Fairview Park
Kasey Aileen Dunlap, Cincinnati
Robert Eugene Dyckes, Grandview Heights
Matthew Allan Eifrid, Paulding
Claire Louise Esmond, Upper Arlington
Betsy Erin Evans, Newark
Susan Ruth Facer, Lima
Gail Lynn Feltner, Marion
Rebecca Ruth Ferris, Columbus
Tamara Layne Fisher, Cardington
Mary Kathleen Flach, Hillsboro
Sandra Kay Flanagan, Columbus
Hillary Foote, Hudson
Andrew Galen Fox, Wooster
Susan Elizabeth Glass, Galena
Ruth Marjorie Glenn, Eastchester, NY
Kimberly Ann Govern, Alliance
Bradley Jay Greenberg, Cincinnati
Mary Ellen Griesmer, Cleveland Heights
Richard Frederick Gygi, Mentor
Jerome Eugene Hansel, Jr., Warren
Priscilla L. Hapner, Hillsboro
Patricia Ann Hartmann, Medina
Melody Lynn Hesse, Proctorville

John Edward Hinton, Columbus
 John Sherman Hutson, Columbus
 Mark Warren Isakowitz, Beachwood
 Wendy Lynn Johnson, Columbia, SC
 Clifton Emmet Jones, Marion
 Lance Peyton Jones, Columbus
 Denise Howes Juhola, Ashtabula
 Christian Eric Kaup, San Francisco, CA
 Susan Lynn Kelley, Mentor
 Ruth Anne Kentner, Caldwell, NJ
 Amy Esther Kidwell, Canton
 Julie Rae Kimmel, Columbus
 Katherine Lois Kitchens, Cincinnati
 Diane Koren, Dublin
 Robert Jason Kreachbaum, Westerville
 Andrew Martin Krumholz, Shaker Heights
 Darlene Marie Lebens, Columbus
 Steven Dennis Lee, Cheyney, PA
 Susan Marie Luke, Englewood
 James Andrew Marron, Babylon, NY
 Timothy L. McClymonds, Dublin
 Deborah Lynne McNinch, Warren
 Nora Marie Merhar, Worthington
 Brian Keith Mexicott, Columbus
 John Eric Mixer, Burton
 Richard Lynn Neighbarger, Columbus
 Robin Lee Nesbitt, Mt. Gilead
 Romy Ann Noltmier, Columbus
 Cathleen Mae Olsen, Mt. Vernon
 Debra J. Oswald, Monroe
 Patrick E. Paquin, Hilliard
 Hillary Gal Peretz, Beachwood
 James Frederick Perine, Columbus
 Robert Price Perry, Marblehead
 Christina Maria Peters, Columbus
 Diana Dee Phillips, Kettering
 Patrick Joseph Piccininni, Worthington
 Phillip Nick Potter, Geneva
 Marjorie Regina Prince, Columbus
 Beth Ann Rapach, Cincinnati
 Frank James Reed, Jr., Bexley
 Thomas James Revou, Worthington
 Camilla Ricciardo, Newark
 Karen Rene Richards, Wadsworth
 Douglas Todd Robinson, Newark
 Thomas James Rocco, Bexley
 Gregory Joseph Ross, Perrysburg
 Sloan Eric Rubin, Athens
 Scott Walter Rucker, Columbus
 Harold Keith Sauter, Batavia
 Jed Lewis Sawmiller, Waynesfield
 Thomas John Schmidt, Columbus
 Anne Marie Schulte, Cincinnati
 Renee Aileen Schwartz, Mountaintop, PA
 Neal Alan Semel, Middletown, NY
 Amanda Leigh Shelt, Massillon
 Christine Ann Shepherd, Lima
 Jennifer Ellen Short, Upper Arlington
 Jody Lynn Shultz, Maumee
 Craig Steven Smith, Richwood
 Nicholas Michael Smolkovich, Fowler
 Amy Marie Smothers, Iowa City, IA
 Eric Carter Staats, Columbus
 Michelle Denise Stark, Grove City
 David Jay Steiger, Pepper Pike
 Bettina Sullivan, Gahanna
 Anne Margaret Sykes, Westerville
 Rebecca Lee Thomas, Canfield

Jenny Joanna Thorp, North Olmsted
 David Sidney Trouten, Jr., St. Clairsville
 Mary Ann Undeutsch, Columbus
 Margaret Anne Varley, Warren
 Tracy Anne Vezdos, Avon Lake
 Erica Bloomquist Warner, Columbus
 Holli Marie Wellmer, Brecksville
 Jeffrey Stuart White, Columbus
 Janine Kiraly Wiese, West Jefferson
 Kathryn Patricia Wilcox, Temple Hills, MD
 Joyce Elaine Wilson, Columbus
 Mark Charles Witte, Cincinnati
 Edward Thomas Zalipski, Reynoldsburg
 Cynthia Zurich, Amherst

College of Mathematical and Physical Sciences

Dean: C. William Kern

Bachelor of Arts

Kimberly Sue Apple, Kettering
 April Laverne Artis, Youngstown
 Robin Colby Corzatt, Leesburg
 Robert Eugene Day, Columbus
 Randolph Edwin Digges III, Chillicothe
 Andrew Galen Fox, Wooster
 Rebecca Jane Garner, Columbus
 Sima Gellman, Columbus
 Merrill Lee Gladden, Jr., Malta
 Kacey Renee Green, Zanesville
 Sean Daniel Hoynes, Norton
 Craig Douglas Kelley, Glenford
 Cheryl Marie Mansky, Boardman
 Robert Louis Miller, Toledo
 Rebecca Sue Moore, Medina
 Richard Todd Moyle, Allentown, PA
 Timothy Scott Rankin, Columbus
 Susan Lori Schwaiger, Aurora
 Michelle Hanako Sugiyama, Westerville
 Steve A. Turner, Columbus

Bachelor of Science

Kathleen Mary Andrews, Reynoldsburg
 William Allen Armstrong, St. Marys
 Philip Aaron Baum, Zanesville
 Kathryn Margaret Berchak, Columbus
 Lloyd Michael Blake, Jr., Shaker Heights
 Elaine Teresa Bowman, Toledo
 Mary Beth Breckenridge, Lancaster
 Scott Allen Brown, Springfield
 Lisa Jeannette Carlin, Akron
 Glenn Reid Chave, London
 Julia Chen, Morgantown, WV
 Steven Charles Clough, Oneonta, NY
 Anne-Marie del Giudice, Socorro, NM
 Pamela Anne Dennis, Columbus
 Mark Joseph Dobrin, Cuyahoga Falls
 Joseph Dolinak II, Columbia Station
 Suzanne Marie Dorinski, Lorain
 Anne Elaine Eagle, Columbus
 Thomas Lewis Ellis, Columbus

Emily Bouic Engle, Washington Court House
 James Paul Feller, Columbus
 Carol Elizabeth Fogel, East Liberty
 Frederick Robert Franklin, Cincinnati
 Ben William Friedman, Beachwood
 Tiffany Renée Gentry, Toledo
 Stephanie Anne Gettys, Cincinnati
 Katherine Elizabeth Glowacki, Mentor
 John William Green, Bellbrook
 David Andrew Guralnick, Mercer Island, WA
 Scott Quincy Hannum, Berea
 Matthew Hur, Cincinnati
 Haisam Kassim Ido, Salamiah, Syrian Arab Republic
 Richard Victor Jacko, North Olmsted
 Darren John Johnson, Columbus
 Kevin Theodore Johnson, Erie, PA
 Panagiotis George Kakalettris, Athens, Greece
 Zoltan Ferenc Kanyo, Brook Park
 Eric Roger Kaufmann, Saddle Brook, NJ
 Jayna Leigh Kenney, Aurora
 Jeffrey Joseph Kiener, Pataskala
 Douglas Stephen Kilmer, North Canton
 Martha Jean Kirner, Sandusky
 Lisa Beth Kossiver, Cleveland Heights
 Steven Lyle Lecky, Wadsworth
 Corinne Elizabeth Lehmann, Hamilton
 Julia Huei-Jian Lo, Taiwan, R.O.C.
 Diane Marie Lunder, Willowick
 Robert Edward Martin, Cleveland
 Mary Frances McDonough, Steubenville
 Joseph Patrick Mehrle, Columbus
 Donna Jeanne Melchiori, Blacklick
 Wendy Kay Mesler, Columbus
 Richard Paul Metzger, Jr., Niceville, FL
 Gary Lee Mitchell, Columbus
 Jerome Robert Pfeiffer, Versailles
 Bjork Ragnarsdottir, Hafnarfjörður, Iceland
 Susan Ransohoff, Bethesda, MD
 Gregory Adam Reichard, Cincinnati
 David John Rios, Niles
 Gregory Morris Saunders, Piqua
 Susan Marie Scalzo, Dublin
 James Warren Shoots, Westerville
 Albert B. Short, Westerville
 Todd L. Silas, Columbus
 Geraldine Anne Sinatra, Avon Lake
 Tonda Kay Strouble, Louisville
 John Michael Sullivan, Columbus
 Stella Mei-Mei Sung, Worthington
 Marci R. Tabacchi, St. Clairsville
 Matthew John Tagliaferri, Richmond Heights
 Nicholas Thurn, Columbus
 Michael A. Ulm, Coral Springs, FL
 Leslie John Vandermark, Columbus
 Grace Anne Wan, Columbus
 Robert Leonard Wheatley, Columbus
 Cynthia Ruth White, Canton
 Victorea Danene Wright, Bellevue, NE
 Lee Lan Yip, Hong Kong
 Pamela Louise Young, Columbus
 Christian Aaron Zorman, Marysville
 Stephan Joseph Zvonar, Huber Heights

College of Social and Behavioral Sciences

Dean: Joan Huber

Bachelor of Arts

Lori Junkersfeld Abbott, Worthington
Caren Sue Albers, Columbus
Craig Howard Alexander, Steubenville
Melissa Antoniadis, North Canton
Douglas Alan App, Upper Arlington
Daniel Aronowitz, Cincinnati
Jeanie M. Atanasoff, Columbus
Paul Joseph Atkinson, Elyria
Kimberly Anne Auer, Huron
Gary James Baldauf, Arlington Heights
Chandra Sue Baldwin, Chagrin Falls
Daniel Edward Banks, Elida
Deborah Ann Bannister, Perrysburg
Brian James Barth, Brecksville
Eric Paul Battle, Cincinnati
Carl Joseph Bauer, Euclid
Kristine Lynn Baumgartner, Tiffin
Robin Rebekah Baxter, Belpre
Paul Stephen Beach, Beavercreek
Scott Brian Beals, New Carlisle
Ann Elizabeth Beckley, Akron
Beth Ann Benadum, Columbus
Eric Harlan Berko, Elyria
Darcy Alison Berliner, Columbus
Richard Norman Wentworth Berry, St. Thomas, VI
Paul William Beshers, Columbus
Eric Todd Bleiweis, Edison, NJ
Deborah Ann Bonarrigo, Columbus
Sheryl Lynn Bowling, Circleville
Peter Stanley Bressoud, Springfield
Tracye Fawn Brewton, Shaker Heights
Deborah Susan Brown, Avon Lake
Henry Louis Brown, Jr., Queens, NY
Mark Raymond Brown, Worthington
Martha Elliott Brown, Granville
Sheilah Noreen Brown, Columbus
Jerry Lee Buchs, Amherst
Kathleen Ann Budrus, Middletown
Kevin Scott Burdette, Canfield
Renée Louise Burgdorf, Strongsville
Rosa Maria Cahill, Medway
Tammy Angela Callaghan, Columbus
Craig Russell Campbell, Columbus
Pamela Lynne Campbell, Fairborn
Lisa Ann Carnes, Canton
Amy Beth Carpenter, Columbus
Cynthia Ann Carter, Cleveland
David Casarona, Cincinnati
Mary Caroline Cassanos, Newark
Jeffrey Thomas Catalano, Columbus
Duncan C. Cavanaugh, Mt. Adams
Pamela Louise Champlin, Akron
Mark Joseph Christel, Carroll
Andrea Lyn Chrysler, Seven Hills
Lucianne Rose Ciferno, Warren
David Eugene Clarke, Grove City
Margaret Asalyn Taylor Clawson, Gahanna
Colleen Michelle Clement, Dayton

Collette Jeanne Clement, Dayton
Jon David Cohen, Columbus
Lisa Ann Colaianni, Canton
Tracy Ann Combs, Middletown
Lisa Lynn Conant, Westerville
Scott Allen Cooper, Columbus
April Nannette Corns, Portsmouth
Gregory Karl Cramer, Fostoria
Gay Ann Cronley, Kenton
James Charles Crowley, Nashville, TN
Camille Nadine Curtis, Akron
Laura Lynn Curtis, Upper Arlington
Phyllis Renée Daniels, Parkersburg, WV
Deborah Sue DeCenso, Mansfield
Katherine Page DeCourcy, Cincinnati
Christine Marie Demos, Upper Arlington
Luiza Garcia deSouza, Uberlandia, M.G., Brazil
Dina Francine DeTally, Newbury
Margaret Jones Dillon, Columbus
Fadzilah Din, P. Pinang, Malaysia
Lisa Elizabeth DiPaolo, Columbus
Paul James Dixon, Columbus
Michael Gregory Dobronos, Brecksville
Kristina Lynn Doll, Gahanna
Mary Angela Donahue, Columbus
Laura Lee Dowling, Willard
Michelle Leah Dranichak, Columbus
Sharon Marie Dress, North Olmsted
Annabell Droz-Berrios, Arroyo, PR
Jeanne Marie Dumbacher, Cincinnati
Mark E. Easterday, Beavercreek
Douglas Wade Eaton, Lima
Scott Paul Edersheim, Honeoye, NY
Keith Melvin Ellis, Columbus
Marla Jean Eshelman, Clyde
Patrick Gregory Fath, Mentor
Maha Fayadh, Westlake
Edward Joseph Fellows, Cadiz
James Victor Felty, Columbus
Randall William Ferguson, Caldwell
James Christopher Ferri, Warren
Lynne Ann Fiala, Cincinnati
Scott Allen Fierman, Lyndhurst
Patrick Gordon Fink, Massillon
Laura Lee Fiorentino, Worthington
Anthony Martin Fischer, Columbus
Andrew Jay Fiscus, Smithville
Jennifer Lynn Fisher, North Bend
Rhonda Leigh Fisher, Stryker
Michael James Fitzgerald, Erie, PA
Darinka Dyan Fletcher, Shaker Heights
Terrence Peter Flink, Centerville
James Michael Forche, Toledo
Kimberly Sue Foulkes, Columbus Grove
Ronald Fowler, Akron
Deanne Therese Frabotta, Columbus
Antonio Scott Franceschini, Solon
Michael William Freeze, Massillon
Gregory Coleman Friend, Belpre
Wesley David Frisone, Canton
Kimberly Ann Fullman, Cincinnati
Julie Ann Gafford, Columbus
Tracy Anne Galbreath, Marion
Rebecca Lynne Galerston, Tulsa, OK
Beth Ann Gardini, Hinckley
David Scott Garland, Columbus
Ian Greg Garland, Euclid
Christine Marie Geers, Dover

Dean Christopher George, Cleveland
Steven Rothchild Gill, Beachwood
Stephanie Lynn Girod, Van Wert
Stacey Rana Gold, Canton
Amy Lynn Goldner, West Milton
Kristi Lou Gominger, Perrysburg
Brandy Dené Goodman, Cardington
Jennifer Lyn Gordon, Ligonier, PA
Michelle Rae Gordon, Kansas City, MO
Patricia Lynn Graham, Groveport
Christine Elizabeth Granger, Marion
Susan Elizabeth Grant, Bay Village
Steven Montgomery Graves, Chillicothe
Jane Marie Grote, Westerville
Stephanie Gail Gussler, Columbus
Sheila Marie Gwin, Dayton
Steven Howard Hacker, Wilmington
Patrick Jude Haney, Columbus
Marie-Elise Suzanne Hara, Granville
Mary Ellen Harnak, Mentor
Andrew Sidney Harper, Kettering
Kathryn King Harrison, Zanesville
Scott Keith Harrison, Columbus
Lisa Diane Harsh, Columbus
Megan Lisa Hedberg, North Kingsville
Marilyn Joan Heid, Dayton
Thomas John Henderson, Solon
Kendra Paul Hengesbach, Richmond Heights
Christine Marie Herridge, Columbus
Tracy Ann Hewlett, Poland
Barbara Gibson Hill, Columbus
Kelly Robin Hill, Columbus
Shelly Karen Hillier, Ashtabula
Lisa Marie Hirsch, Chillicothe
Jong Chul Hoh, Toledo
Mitchell J. Holden, Cleveland
Alesia Marie Holliday, Barnesville
David Karl Householder, Ashland
James Robert Hubbell, Jr., Sardinia
Kevin Allen Hughes, Columbus
Karen Lynne Husman, Cincinnati
Ivana Maria Islic, Lakewood
Lorie Lea Jacobs, Louisville, KY
Benjamin Swingly Jeffries, Jr., Wintersville
Harvis Vinson Jenkins, Jr., Cleveland
Julie Marie Jenkins, Columbus
Tamara Lynn Johnson, Columbus
Susan A. Joyce, Columbus
Elizabeth Rita Juhasz, Cleveland
Peter Kevin Kageyama, Akron
Neovi Michael Karakatsanis, Chios, Greece
Mark Myron Karas, Cleveland
Gary Noah Karetsky, Scarsdale, NY
Lori Ellen Katz, Cincinnati
Geri Kay Katzman, Toledo
Greg Andrew Kaufman, Aurora
Kevin Rees Kay, Huron
Kevin Lynn Keefer, Port Clinton
Kimberly Kay Keller, Newark
Martha Rose Kelley, Ottawa
John Daniel Kelly, Toledo
Angela Marie Kilbarger, Lancaster
Beth M. King, Columbus
Olivia Ruth King, Yuma, AZ
Melissa Kirchner, Youngstown
Tammy Kaye Kornja, Columbus

David Charles Kritz, Lorain
 Joel Joseph Kroliski, Amherst
 Marie Anne Kubalak, Columbus
 Kristine Grace Kucera, Moreland Hills
 Kenneth Joseph Lang, Cincinnati
 Eric David Lazear, Niles
 Susan Murray Learner, Cuyahoga Falls
 Sean Patrick Lee, Pawtucket, RI
 Lynn Susan Le Scoezec, Grafton
 Mary Elizabeth Leshner, Miamiville
 Sharon Rose Lettotsky, Shaker Heights
 Seth D. Leventhal, Cleveland Heights
 Barry Ira Levy, Central Islip, NY
 Arthur Wesley Lewis, Fairborn
 Roger Allen Lewis, Columbus
 Jorge Luis Llana, Columbus
 AnneMarie Loftus, Lakewood
 Lisa Marie Lombardo, Columbus
 Lisa Anne Longenberger, Berwick, PA
 Kevin Grant Malchow, Winter Springs, FL
 Bronson Ray Mallett, Grove City
 Susan Marie Mathews, Worthington
 Theodore Pete Mattis, Columbus
 Sarah Elizabeth May, Columbus
 Kathleen Ann McCabe, Worthington
 Amelia Therese McCarthy, Jackson Center
 Molly Ann McGowan, Cincinnati
 Molly Ann McGowan, Toledo
 Ellen Frances McHugh, Dayton
 Timothy Joseph McNicol, Wellsville
 Denton George Mease, Cumberland, MD
 Vasiliki George Meimaris, Vermilion
 Jeffery Allen Meiring, St. Marys
 Beth Ann Mickle, Danville
 Anne Bernadette Miller, Dublin
 Kimberly Jill Miller, Bath
 Robert Edward Moeller, Dublin
 Frank Eric Moeritz, Sagamore Hills
 Brian Keith Moll, Boardman
 Susan Elaine Moran, Hillsboro
 Glenn Theodore Moray, Pittsburgh, PA
 Deborah Marie Morgan, Columbus
 Lisa Morganstern, Pepper Pike
 Ambrose Moses III, Oakdale, LA
 Adam Nathan Moskowitz, Cincinnati
 Noha H. Mourad, Brunswick
 Mark Earl Mulheim, Navarre
 Daniel Jonathan Myers, Zanesville
 Helen Ann Napier, Lewisburg
 Jeffery A. Nash, Twinsburg
 Laura Kristin Neidig, Marion
 Dale Richard Neitman, Kettering
 Richard Nieves, Santurce, PR
 Michele Louise Noel, Arcadia
 Stephen K. O'Brien, Euclid
 William Patrick O'Brien, Richmond Heights
 Lisa Kay Odell, Bay Village
 John Timothy O'Donnell, Westerville
 Jeanne Marie Oja, Columbus
 Eric John Oppiger, Bowling Green
 Steven Orr, Kettering
 William Spurlock Owen III, Warren
 Eric Maurice Pannell, Columbus
 Patricia Jean Papes, Cincinnati
 Marie Ann Pappalardo, Chardon
 Lisa Ann Perna, Upper Arlington
 Anthony John Perisi, Lorain

Mia Gabriella Perry, Groveport
 Mary Jean Petron, Sagamore Hills
 Stacy Lynne Pfahler, Shelby
 Patrick Joseph Piccininni, Worthington
 Susan K. Pieper, Kettering
 Donald Jacob Pijor, Lorain
 Caryn Sue Pinkerton, Dublin
 Christopher Alan Polovick, Columbus
 Susan Lynn Potter, Akron
 Jill Susan Prickett, Cincinnati
 Paul Arthur Raaf, Medina
 Catherine Rabis, Butler, NJ
 Rena M. Ransom, Columbus
 Caren Sue Raterman, Minster
 Paul Phillip Readinger, Fairview Park
 John Charles Reed, Ottawa
 Susan Mary Reiner, Shaker Heights
 John Michael Reymann, Akron
 Michael Kevin Rhonemus, Ithaca, NY
 Kimberly Kaye Richards, Dundee
 Charles Elwood Richardson III, Warren
 Linda Joyce Roberts, Columbus
 Francis Howard Rogers III, Kent
 Marci Jo Rogoff, Beachwood
 Lisa Renée Rohl, Reynoldsburg
 Kristie Diane Rokos, Adena
 Robert John Roman, Mansfield
 Keri Ann Rosenking, Levittown, Long Island, NY
 James H. Rosmarin, Columbus
 Michael Craig Rouse, Fort Walton Beach, FL
 Carol Jane Ruddy, Columbus
 Susan Alice Rugani, Waynesburg
 John Anthony Ruiz, Hilliard
 Julie Irene Sabroff, Mentor
 Cathy S. Saltkield, Martins Ferry
 Anna Sapounaki, Kifissia, Athens, Greece
 Mark David Schemmel, South Amherst
 Jennifer Ellen Schwartz, Shaker Heights
 Roberta Sue Seldman, Canton
 David Lawrence Sercu, West Carrollton
 Amy Malta Sexton, Columbus
 Cheryl A. Sheller, West Jefferson
 Mary Ann Sheridan, Columbus
 Kenneth Wayne Sherman, Bucyrus
 Shari Vonne Sherman, Akron
 Julie Dawn Shoop, Upper Arlington
 Julie Lynne Showiak, Akron
 Jody Lynn Shultz, Maumee
 Baldev Singh Shidhu, Jr., Columbus
 Denise Simmons, Pittsburgh, PA
 Judith Ann Simon, Cleveland
 Matthew Paul Simpson, Granville
 B. Scott SirLouis, Bath
 Elizabeth Anne Skowron, Dayton
 Karen J. Slanicka, Columbus
 Laurie Sue Smith, Hilliard
 Stephen Wayne Smith, Springfield
 Kristin Carson Smithberger, Howard
 Hollie Ann Snow, Howard
 Jennifer Snyder, Middletown
 Michele Beth Sosnosky, Beachwood
 Richard Eric Spencer, Wooster
 John James Spiropoulos, Columbus
 Thomas Lee Spitzer, McCutchenville
 Carl Alan Spurbeck, Reynoldsburg
 Michelle Marie Stanford, Perrysburg
 Randall Evan Stevens, Hudson

Mark Robert Stubbs, Centerville
 Martha Priscilla Sulser, Bucyrus
 Jeffrey Dwain Swank, Mansfield
 Sharon Marie Swartz, Lancaster
 Melissa Ann Swinton, Ossining, NY
 Raymond Russell Swisher, Columbus
 Scott Michael Syring, Toledo
 Carolyn Lee Thaeler, Middletown
 Nathan David Thomas, Sagamore Hills
 Susan Elizabeth Thompson, New Albany
 Jenny Joanna Thorp, North Olmsted
 Shelly Anne Tobin, Vermilion
 Mary Lisa Trenary, Chillicothe
 Erin Elizabeth Triftshauser, Batavia, NY
 Ellen Lee Truxall, Columbus
 Wayne James Underhill, Strongsville
 Ronald Wayne Vanio, Willoughby Hills
 David Allen Van Order, Columbus
 Linda Marie Wagy, Blacklick
 Steven Kenneth Walker, Cincinnati
 Darryl James Walters, Columbus
 David Patrick Warner, Louisville
 Cynthia Elizabeth Watkins, Columbus
 Lori Louise Watkins, Columbus
 Ivan Eugene Watts, Cincinnati
 Carolyn Marie Weeda, Dayton
 David Alan Weisberg, Beachwood
 Diana Lynn Weiss, Buffalo, NY
 Douglas Ward Wetzel, Westerville
 David Alexander Whitcomb, Upper Arlington
 Mark Alan Whitman, Ravenswood, WV
 Anthony Clayton Whitmer, Coshocton
 Jennifer Marie Wilcox, Columbus
 Kathryn Patricia Wilcox, Temple Hills, MD
 Paul Richard Williams, Uniontown
 Adonna R. Wilson, Cardington
 Scott Harvey Wilson, Marion
 Lori Elizabeth Witherup, Coshocton
 Milissa Penelope Wojta, Columbus
 Robert Alan Work, Hilliard
 Cathy Chilton Yaste, Middletown
 Angela Mahan Yeldell, Columbus
 Elizabeth Jule Zeidenberg, Bethesda, MD
 Donald Alan Zeppernick, University Heights
 Robert Alan Zimmerman, Beachwood
 Dina Zinni, Middleburg Heights
 Christian Aaron Zorman, Marysville

Bachelor of Science

Sherry Elizabeth Altizer, Centerburg
 Dale Jeffrey Arnett, Mechanicsburg
 Karen Amy Bessellievre, Columbus
 Stephen Vincent Bradley, Franklin
 Laurel Nikki Bravo, Cleveland
 Terri Lee Bunn, Toledo
 Marie Caputo, Strongsville
 Rodrigo Alberto Chaves, San Jose, Costa Rica
 Deborah Ann Cianflora, Delaware
 Kimberly Sue Conrath, Marion
 Francine Laura Cosner, Cleveland
 Susan Wolfe Cotterman, Coshocton
 Nancy Joan Davidson, Marion
 Timothy Broadhurst Decker, Berea

Lisa Ann Dewire, Bryan
 Paul Anthony Dudchenko, Sheffield Lake
 Timothy Grant Ferree, Columbus
 Barbara Jane Fickell, Upper Arlington
 Nathan Edwards Freer, Cincinnati
 Edwin Dale Hendrickson, Midland, MI
 Kimberly Dawn Homa, Alpharetta, GA
 Joseph Anthony Iannucci, Jr., Toledo
 Lisa Marie Joliat, Canton
 Michael Brian Katka, Columbus
 Clark James Leslie, Beavercreek
 David Vincent Mackett, Reynoldsburg
 Samuel James Matchett IV, Columbus
 Daniel Kian McKiernan, Westerville
 David Warren Mills, Norwalk
 Anthony Abrillo Moraleja, Waverly
 Daniel Marc Neides, Pepper Pike
 Heide Marie Newton, Hudson
 Heather Chapin Reed, Westerville
 Kimberly Ann Schoch, Warren
 Michael Stephen Schottenstein, Columbus
 Kimberly Ann Selva, Wooster
 Judith Ann Silagy, Westlake
 Mark Andrew Spadaro, Mentor
 Leann M. Stadlander, Columbus
 Jalyln Marie Stahl, Reading
 Pia Camilla Stensby, Oslo, Norway
 William Christopher Suren, Strongsville
 Christopher Jon Thomas, North Canton
 Laura Grace VanArsdale, Wyoming
 Michael Lawrence Waxman, Lyndhurst
 John William Welsh, Jr., Parma Heights
 Stephen Allan White, Largo, FL
 Christopher Andrew Wrobleski, Highland Heights

School of Journalism

Bachelor of Arts in Journalism

Robert Eric Adelstein, Lyndhurst
 Michael Charles Adolph, Mogadore
 Deborah Lynn Alexander, Pepper Pike
 Thomas Michael Andrews, Jr., Steubenville
 Laura Kristin Arthur, Worthington
 Dale Charles Bagwell, Boardman
 Samantha Lee Baker, Bexley
 Jay William Becker, North Olmsted
 Robert Ray Berger, Jr., Butler
 Scott Clarkson Bitzer, South Euclid
 Lesley Rose Bradley, Lorain
 Traci Darlene Brown, Columbus
 Nicholas Anthony Bryan, Columbus
 Cynthia Ann Byrd, Columbus
 Susan Jane Carey, Columbus
 Mary Catherine Chojnacki, Gates Mills
 Christine Ann Crumrine, Lima
 Michael Anthony Demko, Copley
 Patrick Douglas Derr, Circleville
 Mary Catherine DiSalle, Maumee
 Andrew Jerome Downey, Columbus
 Casey Devin Doyle, Gahanna
 Susan Elizabeth Drapkin, Pittsburgh, PA
 Dana Lynn Dwosh, Lyndhurst
 Brian Louis Dytko, Canton
 Regina Vite Eckel, Fort Worth, TX

Louis John Fabro, Columbus
 Maureen Susan Fearon, Canton
 Darryl John Feldmeyer, Dayton
 Cathleen Marie Finn, Cincinnati
 Christine Alexandra Fisanick, Columbus
 Leslie Lynn Flacche, Westerville
 Rebecca Lynne Flowers, Wadsworth
 Nanette Marie Fortman, Westerville
 Gina R. Fralic, Chesapeake
 Denise LaShon Fuller, Columbus
 Janice A. Fulmer, Akron
 Vincent Eugene Garlock, Lima
 Richard Paul Geib, Lakewood
 Melissa Jo Green, Sylvania
 Joseph Patrick Griffin, Columbus
 Joanne Mary Grunenwald, Columbus
 Thomas S. Haughey, Sylvania
 Donna Kristen Heisler, Beavercreek
 Denise Janette Hergatt, Westerville
 David Bruce Hickman, Jr., Columbus
 Lisa Ann Hill, Radnor
 Lydia Angelita Hill, Cincinnati
 Barbara Lynn Hoene, Kettering
 Stephen Kenneth Hoza, Cincinnati
 Lori Ann Hull, Vermilion
 Suzanne Marie Jansik, Broadview Heights
 Megan Elizabeth Janusz, Grandview Heights
 Patrick Steven Jeffrey, Madison, NJ
 Marilynn Catherine Johnson, Sylvania
 Patrick Lydon Kilbane, Avon Lake
 Dean Howard Klein, Shaker Heights
 Gabrielle Ann Klein, Beachwood
 Jonathan Carlson Knechtly, Cincinnati
 David Aaron Komessar, Weston, MA
 Karen Sue Kostelnik, Painesville
 Kelly Ann Kugler, Lockport, NY
 Mark Stuart Laven, Beachwood
 James J. Lease, Beachwood
 Mary Anne Leonard, Columbus
 Gerald Lima, Columbus
 Heather Marie Loughley, Bridgeport
 Kerry Ann Lynch, Perry
 Scott Joseph Mangini, Westerville
 Carmel Martin, Lodi
 Mark E. Martindale, New Albany
 Kimberly Kay Matthews, Fostoria
 Dorothy Mae McCollum, Canton
 Sharon J. McKisson, Wellington
 Donna Jean Meacham, Columbus
 Amy Christine Meldrum, Massillon
 Gregory Harmon Mende, Mansfield
 Eric Jude Mettes, Toledo
 Kevin Jon Milliken, Minerva
 Lori Christina Morar, Springfield
 Lisa Ann Nerone, Worthington
 Kelly Maureen O'Connor, Westerville
 Amy Lou Oliver, Westerville
 Paige R. Oliver, Morrow
 Jill Marie Pavloff, Cincinnati
 Michele Cherie Phillips, Cincinnati
 Jeffrey James Plaat, Columbus
 Dawn Marie Plante, Chesterland
 Julie Anne Poulson, Worthington
 Pamela Kay Prosser, Columbus
 Jeffrey Jean Quinn, Columbus
 Kelly Wayne Rapp, Columbus
 Robert Thompson Ridlehoover, Jr., Reynoldsburg

Anita Renee Rorris, Bexley
 Allyson Lynn Roth, Solon
 James Michael Schaefer, Columbus
 John Martin Schoenborn, Fort Myers, FL
 Tamara Carol Schubert, Minster
 Amy Marie Schultz, Columbus
 Lori Ann Sheid, Pompton Lakes, NJ
 Daniel David Shellenbarger, Waynesville
 James Vernard Shindler III, Sylvania
 Anya Maria Silecky, Lorain
 Laurie Jean Simpson, Columbus
 C. Calvin Skaates, Westerville
 Eric John Smith, Cincinnati
 Holly Susan Smith, Mariemont
 Rebecca Ellen Smith, Westlake
 John David Sours, Wadsworth
 Maria Lena Sprinkle, New Springfield
 Scott Alan Stearns, Toledo
 Lisa Jane Summers, Zanesville
 Daniel Julian Sutandar, Medina
 Courtney Lynne Sutton, Antioch, IL
 Nancy Jo Sutton, Westchester
 Valerie Lynn Swoyer, Ashville
 Jacqueline Rae Thurston, Centerville
 James David Touvell, Columbus
 Andrew Leonard Trefz, West Union
 Julie Ann Truex, Wadsworth
 Karen Jean Tussey, Milan
 Lori Anne Vechazone, Columbus
 Allan Francis Villafañe, Miami, FL
 Jeffrey Gabriel Waxman, Cincinnati
 Maria Danielle Welt, Silver Springs, MD
 Eric John Welter, Chagrin Falls
 Heather Therese Westley, Toledo
 James Forrest Whisler, Kirtland
 Diedre Lynnette Williams, Cleveland
 Patricia Diane Wise, Perrysburg
 Lucinda Ann Wolstenholme, Marysville
 Patricia Ellen Young, New London

College of Agriculture

Dean: Frederick E. Hutchinson

Bachelor of Science in Agriculture

Kelly Wayne Ager, Jewett
 Dawn Patricia Alspaugh, Springboro
 Jon Mark Anders, London
 Jeffery Alan Bahnsen, Perrysburg
 Sara Grace Baker, Sylvania
 Louie Angelo Basilone, South Euclid
 Shawn Vincent Belt, Columbus
 Robert Charles Berry, Wadsworth
 Robyn Lynn Besecker, Arcanum
 Michael Angelo Bianchi, Cincinnati
 Testfaye Wosenyehel Biru, Columbus
 Robert Fager Black III, Columbus
 Rebecca Catherine Boerger, Seaman
 M. Neal Bond, New Vienna
 Gary William Bowers, Sidney
 David Carlton Boyle, Columbus
 Judith Diane Brazis, Burbank
 Laurie Ann Burnett, Cincinnati
 Thomas Barry Burroughs, Batavia
 Kibb Lawrence Calaway, Columbus
 Michelle Lynn Callahan, Williamsport

Christy Mae Cavanagh, Burton
 Mark Robert Charville, Milan
 Chris Allen Clark, New London
 Roger Alan Clark, Attica
 Aaron Christian Cole, Republic
 Eric Robert Cook, Paulding
 Bryan Lee Crapo, Wellington
 Todd Dale Creager, Wauseon
 Mark Steven Cronin, Hudson
 Julie Anne Davis, Marion
 Eugene David DeBruin, Sugar Grove
 William Jay Decker, Green Camp
 Eric Lee Dodd, Amherst
 John David Dryer, Avella, PA
 Gail Elaine Edgington, Middletown
 Bethann Emmons, Fayette
 Todd Richard Emo, Ransomville, NY
 Timothy David Eppley, Zanesville
 Joseph Calvin Erb, Whipple
 Donna Lee Estey, Troy
 Anne Marie Fay, Dayton
 Tony Allan Finchum, South Charleston
 Mark Allen Frank, Homeworth
 Matthew Ross Frost, Utica
 Roger Llewellyn Getting, Cleveland Heights
 Ralph Anthony Gillota, Medina
 Ashley Lynn Gordon, Marysville
 Kevin James Grace, Brecksville
 Carol Marie Grant, Columbus
 Matthew Michael Griffin, Cleveland Heights
 William Douglas Griffith, Ada
 David Lynn Grooms, Delaware
 Brian Kenneth Gwin, Shreve
 Gregory Ara Hamamjian, Lakewood
 Lynn Lemar Hamilton, Felicity
 Jeffrey Scott Hara, Farmersville
 Rodney Lynn Heffner, Harrod
 Patricia Heinrich, Mentor
 Darrin Glenn Heinz, Kettering
 Jay Paul Henderlong, Plain City
 Elizabeth A. Henson, Lima
 David Lee High, Columbus
 Jefferson James Hingson, Jenera
 Kevin James Hooper, Dresden
 Mark Elden Houts, Celina
 Andrew Robert Huey, Marysville
 Bettye Claire Huffman, Powell
 Randall Lee Hutchison, Columbus
 Kevin Thomas Jenne, Iberia
 Robin Lu Johnson, Columbus
 Mary Ann Kistler, Fremont
 Jay C. Kraushaar, Brooklyn Heights
 Jeffrey Robert Kreinbrink, Leipsic
 Tamara Gail Kritzler, Kenton
 Sandra Jo Kuhn, Rockbridge
 John G. Labine, Maumee
 Sharon Ann Lambert, Pickerington
 Michael August Langenkamp, Celina
 David Ross Lendon, Columbus
 Todd Mitchell Long, Alger
 Darcy Ann Loos, Worthington
 Roger Lee Lyons, Columbus
 Brian John Mahoney, Long Island, NY
 Denise Ann Marrison, Jefferson
 Timothy Charles McDaniel, Urbana
 Charles Timothy Meder, Columbus
 Maureen Ann Meslovich, Cleveland

Gary Eugene Mills, Mt. Vernon
 Juan Fernando Moreno, Bucaramanga, Colombia
 Vicki Kay Morris, Oberlin
 Christopher Andrew Morrow, Stamford, CT
 Laura Jane Murphy, Ironton
 Pamela Lynn Nau, Pleasant City
 David Kent Newman, Galion
 Robert Alan Niederman, Hamilton
 Victoria Lee Onaitis, Alliance
 William Scott Ostermeier, Midland
 Borys Eugene Pakush, Lorain
 Cathy Ann Palatinus, Petersburg
 John William Parkinson, Adena
 Ronald Duane Parks, New Concord
 Mark Edward Pickering, Springfield
 Philip Willis Quellhorst, New Bremen
 Karen Lynn Ray, Columbus
 Jose A. Reyes, Jr., Aguadilla, PR
 Beth Anne Rice, Sandusky
 Bryan Thomas Rice, North Canton
 Donald Martin Roth, Beachwood
 Collin Jan Ruckel, Waite Hill
 Michael James Saunders, Bloomingdale
 Peter Thomas Schade, Olmsted Falls
 Donna Marie Schaefer, Englewood
 Keith Alan Scheiderer, Marysville
 Cheryl J. Schroer, New Knoxville
 Susan Kaye Scott, Parma Heights
 James Paul Shaffer, Cardington
 James Vincent Sharp, Jefferson
 Janet Schuler Shickley, Columbus
 David Lee Sholl, Edgerton
 Shannon Kay Shumaker, Clarksville
 David Ray Shupp, Bucyrus
 Marjorie Lynn Sigler, Franklin
 Van Howard Slack, Roseville
 Mark Edwin Slater, Hebron
 Kenneth Elton Smith, Worthington
 Stacey Ann Smolik, Euclid
 Eric Riley Sorrell, Eaton
 Brian Allen Spahr, Findlay
 Charles Reed Spitler, Findlay
 Jennifer Marsha Steel, Germantown
 Kurt David Steiner, Creston
 Kevin Allen Stoner, Loudonville
 Lynnette Rae Voltz, Ohio City
 Donovan DeVern Weaver, Kenton
 Edward J. Werry, Chester
 Gregory Kenneth Williams, Eaton
 Christopher John Willman, Attica
 Robert Todd Wise, New Philadelphia
 Lorene Ann Wurts, Attica
 John Matthew Yager, Chesterland
 Craig David Zeerip, Fremont, MI
 Trisha Marie Zimmerman, Dayton

Bachelor of Science in Food Science

Andrew Scott Ames, Toledo
 Rose Catherine Bruno, Dublin
 Connie Jean Justinger, Defiance
 Tracy Glen Kavanagh, Richwood
 Amy Elizabeth Peacher, Hamilton
 Cheryl Ann Peters, Columbus
 James Michael Post, Indianapolis, IN
 Rosalyn Ruland, Madison
 Cameron Dwight Wright, Conneautville, PA

Bachelor of Science in Food Technology

Paula Jean Rausch, Marysville
 Jeffrey Keith Seeds, Pickerington

School of Natural Resources

Bachelor of Science in Natural Resources

Vincent Patrick Ashcraft, Piqua
 Stephen Edward Bachmann, Lyndhurst
 Roberta Jane Beyer, Kettering
 Daniel Garrett Bissonette, Dayton
 Robert G. Blanke, Reynoldsburg
 Sharon Louise Bogner, Centerville
 David Paul Cremer, Perrysburg
 Craig Allen Davis, Casstown
 James Louis Eckert, Strongsville
 Bryan Arthur Fail, Columbus
 Tammye Lynne Fleeman, Lodi
 Thomas Allen Hrivnak, Manchester
 Daniel Herman Huss, New Riegel
 William Edward Jasko, Columbus
 Lisa Jo Jenewein, Beallsville
 Peter Norman Johnson, Brunswick
 Daniel Richard King, Galena
 Anthony Joseph Lavatori, Cincinnati
 John Paul Leahy, Hilliard
 Theresa Marie MacDonald, Gahanna
 James Francis Mehl, Maustown
 Patrick John Murray, Cleveland
 Noreen Theresa O'Donnell, Euclid
 Patrick Edward Radachi, Elyria
 Robert John Reid, Bay Village
 Timothy James Riegel, Columbus
 Jennifer Ruth Ritter, Columbus
 Ronald Elmer Rothhaas, Jr., Cincinnati
 Kristina Rochelle Salyer, Columbus
 Bradley Logue Sellers, Lima
 David Eric Sherman, Bucyrus
 George Alfred Sholtis, Ashtabula
 Vanessa Jeanne Steigerwald, Strongsville
 Sharon Lynn Thomas, Marion
 Joseph Jon Vaughn, Fredericktown
 Suzanne Marie Walker, Hamilton
 James Randolph Wallace, Byesville
 Raymond Karl West, Vermilion
 Liesl Carol Wheeler, Fairfield
 John Andrew Yablonski, Creston
 Ilene Stephanie Zeff, Cincinnati

Agricultural Technical Institute – Wooster

Associate in Applied Science

Kathryn Sarah Ackers, Mentor
 Raymond V. Adams, Madison
 Barbara Lynn Arnold, Kent
 Greg E. Bailey, Uniontown
 Cathy Sue Blake, Wooster

Adam E. Bloom, Brunswick
 David Eugene Brautigam, Wapakoneta
 Dennis Lynn Buehler, Oak Harbor
 Gregory F. Bugai, Maple Heights
 Michael Gregory Burns, Sharon, PA
 Bret Scott Cleveland, Green Springs
 Gary Alan Coleman, Hamilton
 John Roger Couch II, Greenville
 Bradley Robert Crissinger, Youngstown
 Timothy Patrick Cunningham,
 Youngstown
 Dana Allen Dulin, Kenton
 Robyn Renee Eppley, Coshocton
 Christopher Lynn Fallot, Waynesburg
 Lori Beth Fliehm, Sabina
 Debbie Ann Frederick, Dundee
 Carl Raymond Frey, Strongsville
 Barry T. Garrod, Columbiana
 Kelly Colleen Goodchild, Salem
 James Raymond Gresh, Wooster
 David Ryan Hanaby, Nashport
 Beth Ann Johanna Harper, Wooster
 Kathryn Jeanne Hartzell, Bolivar
 Kenneth John Heese, Latrobe, PA
 Eric Ron Henderson, Massillon
 Michael Andrew Hercheck, Atwater
 Kurt Dale Joviak, Elyria
 Brian Keith Kelly, Dayton
 Kathleen Anne Klear, North Ridgeville
 Khris Kelly Kohler, Delaware
 Patricia Jo Luke, Wooster
 Scott William Maneval, West Unity
 Joseph Michael Mehalic, Jr., Derry, PA
 David Gerard Meier, Fort Recovery
 Amy J. Miller, Shreve
 David John Mosbacher, Erie, PA
 Eric Donald Moulton, Powell
 Roger James Myers, Wauseon
 Darren Dean Newcomer, Seville
 William Columbus Pelfrey, Jr.,
 Wadsworth
 Robin D. Powell, Wooster
 Linda Kay Price, Wooster
 Rodney Jay Probasco, Zanesville
 John William Ray, North Ridgeville
 David Alan Redilla, Lorain
 Richard Allan Repp, Massillon
 John Henry Sheetz, Canton
 Sharon Elaine Secrest, Caldwell
 Christina Louise Shaeffer, Columbus
 Shawn Douglas Sheridan, Vienna
 Joseph James Siefring, Burkettsville
 Jacqueline M. Smith, West Islip, NY
 Kenneth William Smith, Macedonia
 Steven James Smith, Vermilion
 Daniel Willard Snyder, Wooster
 John Christopher Snyder, Uniontown
 Timothy Aaron Sowers, Zoarville
 Michael Wayne Stanfield, Wooster
 Brent Alan Stottsberry, Cambridge
 Jane Anne Suchan, North Royalton
 Thomas Craig Theobald, Middletown
 Donna Faye Toy, Crestline
 John C. Unger, Eldorado
 Christian W. Voltz, Van Wert
 Steven Joel Wertz, Ashland
 David Alan Williams, Mansfield
 Michael S. Williams, Eastlake
 Douglas Ralph Wilson, Danville

Leanne Jill Wise, New Philadelphia

College of Business

Dean: H. Justin Davidson

Bachelor of Science in Business Administration

Brian Terry Abraham, Cleveland Heights
 Lisa Renee Adams, Columbus
 Marcelle Grace Agdinaoy, Brecksville
 Glenn Fredrick Alban, Worthington
 Pamela J. Alesiano, Dover
 Jeffrey Paul Alspach, Lancaster
 Robert Loren Altman, Mayfield Heights
 James Alan Anderson, Lewistown
 Mark Richard Anderson, White Bear
 Lake, MN
 Matthew Douglas Anderson, Westerville
 Maureen Elizabeth Arber, Beavercreek
 Gregory James Arnott, New Carlisle
 Carrie Elizabeth Ash, Columbus
 James Matthew Ash, Worthington
 James Ebrahim Attia, Columbus
 Mark Plumb Atwood, Chagrin Falls
 Timothy Wayne Ault, Westerville
 Pamela Joy Bailey, Worthington
 Patricia A. Bainter, Lancaster
 Kelly Sue Ball, Warren
 Brian John Ballou, Huber Heights
 John Patrick Barlow, Dayton
 Kelly L. Bartholomew, Columbus
 Mark Charles Bashore, Shelby
 Michael Alan Batross, Columbus
 Melanie Sue Bauer, Uniontown
 Sanjay Bawa, Ludhiana, India
 Julie A. Becker, Trotwood
 Armand Gary Begun, Cambridge
 John Lee Behnfeldt, Bowling Green
 Karen Sue Belt, Worthington
 Jeffrey E. Bennett, Columbus
 Joan Marine Bennett, Bolivar
 Mark David Bennett, Westerville
 Brian David Benson, Worthington
 Lisa Marie Benson, Westerville
 Jeffrey A. Berkes, Sagamore Hills
 Julie Marie Berrie, Fairborn
 David Robert Beshuk, Pataskala
 Joseph William Bettinger, Toledo
 Melissa Sue Beyer, Toledo
 Chirag H. Bhatt, Columbus
 Nikki L. Biafore, Reynoldsburg
 Karen Lois Bidwell, Dayton
 Alison Carol Bird, Laurel, MD
 Eric David Black, Heath
 Kevin John Blackledge, Heath
 Michael David Blackstone, Granville
 Thomas John Bogdan, Jr., Medina
 Christ B. Bogolis, Mansfield
 Jocelyn E. Bond, Kettering
 Gregory Alton Bonnell, Lima
 Andrew W. Booker, Columbus
 Jodi Ellen Borden, Warsaw
 Larry Scott Borg, Lima
 Patricia Jones Bornheim, Columbus
 Rebecca Joy Bosl, Westlake

Thomas William Bowling, St. Marys
 Steven Paul Boyd, Columbus
 Lisa Ann Braidech, Huron
 Gary Lee Breakfield, Sabina
 Cheril Loudermilk Bregel, Worthington
 Kelly Lynne Brennan, Mt. Vernon
 Ric Allen Brewer, Middletown
 Casey Jay Bricker, Columbus
 Lisa Dorothy Bringardner, Columbus
 Thomas E. Brinsley, Springfield
 Diane S. Brodsky, Solon
 Stacey Neal Brooks, Beverly
 William James Brooks, Chesterland
 Jaci Lane Brothers, Newark
 Lynda Diane Brown, Warren
 Timothy John Brown, Mansfield
 Anthony Joseph Bruns, Cincinnati
 Karlono Budiman, Jakarta, Indonesia
 Mark Benton Buelsing, Cincinnati
 Milton Thomas Bugg, Jr., Cleveland
 William Todd Burger, Mt. Vernon
 William Scott Burke, Grove City
 Paula Jo Burkholder, Galion
 Jeffrey Scott Burns, Canfield
 Timothy Allen Burns, Mansfield
 Paul Andrew Butrey, Amherst
 Maria Lynn Byrd, Columbus
 Victoria Ann Calabrese, South Euclid
 Thomas Robert Cale, Shelby
 John Todd Callicotte, Stryker
 Anne Marie Camp, Columbus
 John Carmen Campanella, Solon
 Michael A. Campanelli, Hudson
 Julie Ann Canter, Columbus
 Alison Kay Caplinger, Hillsboro
 Donna Marie Cardaman, Chagrin Falls
 Edward Vincent Carle, Circleville
 Paul Roy Carpenter, Richardson, TX
 David Andrew Cassese, Willoughby
 Wendell Alan Cauley, Washington Court
 House
 Felicia Chaidir, Medan Sumut, Indonesia
 David W. Chang, Daytona Beach, FL
 Chea Shu Chen, Singapore
 Jennica Anne Cheney, Westerville
 Claudia Angela Chiacchiari, Mayfield
 Heights
 Edward J. Chong, Columbus
 Yuen Theng Chooi, Ipoh, Perak, Malaysia
 Yew Leong Choong, Butterworth,
 Malaysia
 Adam Chu, Westbury, NY
 Jeremy Mark Chucko, West Mifflin, PA
 Denise Elaine Clagg, Pickerington
 Lorenzo De Leon Clemente, Madison
 Cynthia Ann Cloud, Dayton
 Lisa Joanne Cochran, Cambridge
 Rosemary Lucille Coleman, Shelby
 Mark Patrick Collins, Columbus
 Johann Joseph Comprix, Columbus
 Kerri Marie Comstock, Dayton
 Raymond Patrick Conaway, Cincinnati
 Kevin Patrick Conley, Columbus
 Robert Michael Conley, Mansfield
 William Michael Connelly, Jr., Toledo
 Charles Caveroc Conrad, Hamilton
 Kathryn Mary Conway, Middleburg
 Heights
 Greg Alan Cook, Aurora

David Cooper, Pepper Pike
 Melinda Kay Corwin, Delaware
 Mary Elizabeth Crespy, North Olmsted
 Kelley Christine Crites, Gahanna
 John Joseph Cronley, Columbus
 David Scott Culbertson, Worthington
 Thomas Anthony Cullinane, Cleveland
 Todd Alan Cunningham, Lancaster
 James Brian Cuthbert, Columbus
 Jennifer Jo Dale, Columbus
 Timothy Robert Daughenbaugh, Tiffin
 Craig Hillburn Davidson, Findlay
 Andrew H. Davis, Sylvania
 Liesl Michele Day, Toronto
 Carmen M. Deitle, Akron
 Anne Louise DeLacio, Pittsburgh, PA
 Rodney Joseph DePinet, Galion
 Daniel Steven DePrisco, Toledo
 Mary Ann K. Detwiler, Tallmadge
 Patricia Anne Devine, Columbus
 Lisa H. Diamond, Cincinnati
 Mario DiCesare, Columbus
 Jill Mary Dickey, Westlake
 Kelly Ann Dickey, Centerville
 Jane A. Dieker, Columbus
 Joseph W. Diel, Findlay
 Diane Marie Dierna, Columbus
 Lori Grace Dill, Lancaster
 Renee Diane Dillon, Galloway
 Darin E. Dittman, Wapakoneta
 Vinh D. Do, Columbus
 Khozema Shabbir Doctor, Gallipolis
 Lawrence Arthur Dolan, Worthington
 Mary E. Donaldson, Columbus
 Gina Marie Dooley, Columbus
 Jeanie L. Doty, Nashville
 Susan Marie Dressler, Copley
 Lawrence David Dubin, Beachwood
 Mary Margaret Duckworth, Stow
 Mark Allen Duffey, Gahanna
 Mark Steven Duhon, Akron
 David Donald Dygett, Worthington
 Glen Alan Eakins, Sidney
 Lloyd Sanderson Early III, Bexley
 John Earl Eberhart, Circleville
 Scott Layton Eikleberry, Columbus
 George George Elefteriou, Huber Heights
 Lynn Ann Ervin, Edmonton, Alberta, Canada
 Brenda Kay Evans, Columbus
 Lisa Lynne Evans, Jackson
 Robert Anthony Eviston, Columbus
 Steven Anthony Fallona, Granville
 Laura Ann Fashempour, North Olmsted
 Dominic S. Fasone, Columbus
 Judy Ann Fechko, Garfield Heights
 Ruth Ann Feldman, Columbus
 Robert James Fell, Jr., Columbus
 Andrew James Felter, Tiffin
 Laura R. Fennes, Pittsburgh, PA
 David Michael Ferguson, Carroll
 Jeffrey Joseph Ferris, London
 Amy Kay Fetting, Columbus
 Pamela Lynn Fink, Westfield, NJ
 Daniel James Finneran, Hilliard
 Andrew Frank Fiorenza, Mayfield Village
 Robert Edward Fisher, Dayton
 Monica Lyn Fitzgerald, Cincinnati
 John David Fontaine, Lima

Kathleen Rose Fortkamp, Fort Recovery
 Susan M. Fosselman, Garfield Heights
 Vanessa Kaye Fouch, Circleville
 John Robert Frank, Massillon
 William Richard Fravel, Amherst
 Kellie Ann Frederick, Worthington
 Todd Eugene Freed, Wadsworth
 Michael Darin Freeman, Findlay
 John Michael Frericks, Columbus
 Molly Irene Fritz, Norwalk
 Marc Michael Froebel, North Canton
 John Gagliardi, Middleburg Heights
 Carolyn Marie Gaines, Beavercreek
 Lisbeth L. Galehouse, Doylestown
 Eric Richard Gall, Chillicothe
 James Patrick Gallagher, Columbus
 Marianne Theresa Gallaher, Columbus
 Robert Norman Gargrave, Kettering
 Steven Paul Garn, Mansfield
 Kelly Denise Garrison, Westerville
 Michelle Louise George, Hudson
 Paul Clark Gillett, Westerville
 Craig Sherwin Givens, Perrysburg
 Jonathan Charles Glover, Columbus
 Sandra Kaye Goble, Columbus
 Kevin Douglas Goecke, Glandorf
 Curt D. Goetz, Mansfield
 Cheryl Renee Goff, Zanesville
 Lisa Anne Golub, Doylestown
 Linda Lee Gordon, Dublin
 Christine Mary Grani, Dublin
 Jeffrey Allen Grant, Madeira
 Jill Marie Grathwol, Sandusky
 Robert David Green, Columbus
 Sandra Louise Greenwald, Cincinnati
 Steven Ira Greenwald, Lyndhurst
 Dawn Dianne Gregory, Westerville
 Robin Griggs, Cleveland
 Daniel Wesley Grinstead, Cincinnati
 John Brent Grubb, Whitehall
 Christopher Gino Gueli, Reynoldsburg
 Helen Gunawan, Padang, Indonesia
 Matthew J. Gundic, Rocky River
 Atul Gupta, Nashville, TN
 Alan D. Guzik, Eastlake
 Danso Kwame Gyamerah, Columbus
 Robert William Hager, Columbus
 Glenn David Hall, Granville
 Jennifer Elaine Halsey, Galion
 Curtis Scott Hamilton, Vandalia
 Craig Allen Hammond, Bridgeport, WV
 James Jay Hammond, Worthington
 Michelle R. Hammond, Columbus
 James Joseph Hargrove, Columbus
 Gary Graham Harner, Centerburg
 Lee Orva Harper, Columbus
 Richard Michael Harris, Jr., Falls Church, VA
 Anita Lynn Harrison, Vienna, VA
 Stacy Anne Harrison, Eaton
 Leslie Dawn Harrod, Lima
 Martin Albert Harryhill, McDonald
 Jeffrey Daniel Hart, Wyoming
 Susan Lynn Harwood, Ashland
 Craig Adam Hassel, Pepper Pike
 Jeffrey Franklin Havens, Columbus
 Gregg William Haver, Hicksville
 Randy Alan Hayden, Newark
 Charles Perry Heath, Bucyrus

David G. Hebert, Dayton
 Michael Lavern Heilman, Perrysburg
 Heidi Elisabeth Heksch, Beachwood
 Linda Ann Helfrich, Bay Village
 John Norris Helman, Sidney
 Brian Keith Henry, Versailles
 Michael Lee Henry, Columbus
 Beth Ann Herilla, Charleroi, PA
 Richard A. Herron, Grove City
 Cindy Brown Herzberger, Ada
 Tanya Elizabeth Hobe, New Carlisle
 Joseph Christopher Hoess, Upper Arlington
 Nancy Irene Hogue, Lewisville
 Paul Francis Hohl, Findlay
 Derek Matthew Hohman, Findlay
 Dale Holiday, Willard
 Brett R. Holland, Darien, CT
 Steve E. Hollifield, Delaware
 Michelle Anne Hollon, Mansfield
 Douglas A. Holz, Tiffin
 Rebecca Jean Hopkins, Columbus
 Wilmer Edward Hosket, Bainbridge
 Darla Eileen House, Columbus
 Joseph James Houston, Lima
 Tamala Ann Hunter, Fairfield
 Tammy Sue Hutman, Elyria
 John Adam Jacobelli, Parma
 Todd Alan Ingram, Cincinnati
 Michael E. Inskeep, Lima
 Margaret R. Ishee, Chardon
 Christopher Allen Ito, Lakewood
 David Takashi Ito, Hudson
 Natalie Ann Jacob, North Royalton
 Julie L. Jacobus, Akron
 Randall Scott Jacques, Columbus
 Nancy Joann Jakubisin, Warren
 Mark Edward Jamison, Allison Park, PA
 Laurie Ann Januska, Litchfield
 Aaron Lee Jarvi, Bay Village
 Beth Ann Jaynes, Westerville
 Julianne Jenkins, Mansfield
 Scott Byron Jensen, Cleveland
 Daniel Jizhar, Jakarta, Indonesia
 Leonard Jay Johnson, Akron
 Lisa M. Johnson, Chesterland
 Richard Edward Johnson, Newton Falls
 Jennifer Lynn Jones, Mechanicsburg, PA
 Renee Lynn Jones, Alliance
 Elizabeth Marie Juhasz, Mansfield
 Fawzi Munzer Kabbara, Tripoli, Lebanon
 Laurie M. Kalle, Clifton Park, NY
 Jane Eunha Kang, Elyria
 Jeffrey Daniel Kasper, Toledo
 Ing Chuan Kau, Singapore, Singapore
 Brian Louis Kazdin, Beachwood
 Brian S. Kelley, Perrysburg
 Crystal Dawn Kelley, Columbus
 Keith Brian Keyser, Greenwich
 Kathleen Lee Khol, Lyndhurst
 Dorothy A. Killian, Canton
 Patrick S. Kilrain, Highland Heights
 Ruth Janeen Kimerline, Bucyrus
 Christopher James Kindy, Redmond, WA
 Janel Renee King, Galion
 Todd Allan King, Stone Creek
 Robert William Kint, Circleville
 Bruce Everitt Kitchen, Cincinnati
 Steven D. Kleinknecht, Galion

Cheryl Lynn Knauber, Ashley
 Kirstin J. Knott, Columbus
 Brian L. Ko, Cleveland
 Kris K. Koch, Columbus
 Michael Douglas Kohn, Beachwood
 Nicholas Louis Kondoleon, Warren
 Jeffery Allen Koppes, Medina
 Michael Thomas Kostelac, Winfield, PA
 Suzanne Catherine Kozich, Pepper Pike
 Deanna L. Krause, Columbus
 Richard Anthony Krawczski, Beavercreek
 Eric Francis Kristofic, Columbus
 Kelly Renee Kroplin, Elida
 David Frederick Krumel, Gahanna
 Susan Lee Krumesc, Independence
 Deborah Ann Krzys, Valley City
 Jeffrey Allen Kuhr, Cincinnati
 Kyra Ann Kurtz, Cincinnati
 Dijana Kuzarevski, Columbus
 Kimberly Lynn Lahmon, Fancher, NY
 Michelle Toby Landever, Shaker Heights
 William Ronald Lane, Hudson
 Brian James Langguth, Bedford
 Peter Carl Langhals, Columbus Grove
 William C. Latta II, Columbus
 David John Lattimer, Logan
 Krissann J. Lear, Painesville
 Becky Cathy Lynn Ledford, Hamilton
 Angela Lee, Troy, MI
 Edward Nearing Lehmann, Hillsboro
 Ray E. Leonard, Westerville
 James Alan Levasseur, Beverly, MA
 John Randall Lewis, Lima
 Gregory J. Liakos, Columbus
 Timothy Eugene Liggins, Columbus
 Gretchen Kay Links, Toledo
 Laura Jane Linn, Canton
 Anne E. Linville, Middleburg Heights
 Waikit Liu, Singapore
 Cherie Lynn Livingston, North Canton
 Jeffery R. Lohmeyer, Sylvania
 Michelle Lynn Lojek, Cuyahoga Falls
 Kevin Todd Londot, Utica
 Robert Joseph Louwers, Plymouth, MI
 Piero Domenico Lucrezzi, Painesville
 Troy Luther Luke, West Lafayette
 Glenn Barry Lustgarten, Toledo
 Dale Michael Lutz, Cincinnati
 Joseph John Madanski, Painesville
 Michele Elaine Maerker, Springfield
 Anthony Joseph Magnacca, Columbus
 Edward Dennis Makraski II, Marengo
 Stephen Clark Malcolm, Canton
 Michael W. Malloy, Columbus
 Biljana Manev, Columbus
 Jim Craig Manning, Centerville
 Christopher James Marino, Warren
 Jeffrey Scott Martin, Maumee
 Patrick John Martin, Lancaster
 Richard Joseph Martin, Newark
 Wayne Donald Martin, Everett, WA
 Daniel Scott Mason, Dayton
 Douglas Clayton Matney, Columbus
 Linda Ruth Mattson, Antioch, IL
 Shelley Lynn McBean, Chardon
 Brian Michael McCarthy, Sylvania
 Betsy Kerr McCarty, State College, PA
 Cynthia Lynne McCord, Upper Arlington
 Jeffrey Scott McCuen, North Ridgeville

Mark Cooper McCullough, Columbus
 Ronald L. McDaniel, Columbus
 Timothy S. McDonald, Newark
 Karla Renee McDowell, Millersburg
 Timothy Lawrence McGarry, Cleveland
 Stephen James McKelvey, Wadsworth
 Joseph M. McManus, Westerville
 Jeffery Allen Megyesi, Whitehouse
 Scott Allan Mekus, Defiance
 Jody Lynn Melton, Monroe
 Laura Lizbeth Michota, Sylvania
 Julia Marie Mikolajczyk, Toledo
 Christopher James Miller, Milford
 Steven R. Miller, Westerville
 Paul Milsom II, Youngstown
 James Andrew Minnery, Anchorage, AK
 Sharon Marie Minnich, Bay Village
 Patricia Cecilia Miskinis, Worthington
 Braden Kent Moll, Boardman
 Julie Anne Mong, Worthington
 Lisa Marie Montello, Cleveland
 Kathleen J. Mooney, New Lexington
 Scott Lawrence Moore, Strongsville
 Nicholas Gerard Morgione, Youngstown
 Rex Alex Moskovitz, Bexley
 Molly Ann Mulford, Chillicothe
 John Steven Mulholland, Sharon Center
 Margaret Mary Murphy, Columbus
 Tracey Lynn Muzechuk, Centerville
 Jonathan Kent Myers, Edison
 Robert Steven Myers, Columbus
 Darcy A. Naegele, Troy
 Rodney Ellis Napier, Pickerington
 Mark A. Nebbergall, Millersport
 Susan Ann Nedved, Westerville
 David Alan Newcomer, Norwalk
 Angela Dawn Newman, Waterford
 David Michael Newman, Evanston, IL
 Douglas Allen Newman, Hillsboro
 Lisa Ann Newman, Pickerington
 Teri Ellen Newman, Cincinnati
 Kim Hoe Ng, Singapore, Singapore
 Jodi Lynn Nickell, Wheelersburg
 John Erik Niermeyer, Columbus
 Theodore Aloys Nikolai, Kettering
 Jeffrey A. Norris, Zanesville
 Dennis Jay Nowak, Moreland Hills
 James Patrick O'Connell, Kirtland
 Debra Lynn Obojski, Sagamore Hills
 Danuta Ochenskowski, Lorain
 Susan Rose Ogrinc, Westlake
 William Alan Oliver, Greenville
 Christopher Allen Olney, Zanesville
 Jill S. Oppenheimer, Bexley
 Michael Scott Oravetz, Elyria
 Kenneth Alan Ostrander, Columbus
 James Christopher Paat, Maumee
 Chong Man Pak, Los Angeles, CA
 Bobbie Lyne Palm, Newark
 Bernadette Mary Palte, Columbus Grove
 Ashi Saravabhaum Parikh, Columbus
 Julie Ann Parke, West Carrollton
 Bill F. Parker, Delaware
 Cynthia Lee Parsons, Walbridge
 Donald John Passen, Jr., Westerville
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 Stephen Moro Paul, Hilliard
 Thomas Howard Pauly, Ashland
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Lew Jaroslaw Pawluk, Parma
 Michele Marie Pellegrini, Strongsville
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 Thomas F. Pepe, Montvale, NJ
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 Kenneth John Petersen, Fresno, CA
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 Robert Joseph Petterski, Columbus
 Mark Edward Pfeiffer, Kenton
 Jay Evan Phillips, Gahanna
 April Lee Phipps, Vandalia
 Colleen Marie Pinkelman, Maumee
 Tracy Sue Pinnix, Columbus
 Si Alan Pitstick, Kettering
 Kevin M. Pitts, Cleveland
 Terry L. Pitts, Cleveland
 Lisa Jane Plant, Carroll
 Andrew Nicolaus Pogany, Powell
 Galt Mertin Porter, Columbus
 Ray L. Porter, Ontario
 Lisa Marie Prenger, Maria Stein
 Deborah Ann Pribanic, Amherst
 Edward Matthew Price, Bellefontaine
 Gary Benjamin Price, Granville
 Jeffery Scott Price, Hartsville, SC
 Erica Marie Prosser, Columbus
 Mira Lynn Protopapas, Cleveland
 J. William Pryor, Jr., Barnesville
 David Alan Pugh, Dayton-Centerville
 Darin Daines Puppel, Columbus
 Kent Ryan Puthoff, Cleveland
 Michael Andrew Queen, Upper Arlington
 Christine Carol Quilling, Celina
 Aaron Scott Rager, East Palestine
 Allen Franklin Ramey, Marion, IL
 Lynn Denise Ramsay, Cincinnati
 Tim Alan Rankin, Stow
 Roger Lee Rawlins, Jr., Columbus
 Jeffrey Johnson Ray, Canton
 Patrick Reginald Reade, Columbus
 Ronald Jay Reeb, Fairview Park
 Patrick R. Rengel, Sandusky
 Douglas William Rettstatt, New Albany
 Sarita Susanne Reyes, Cincinnati
 Bruce Daniel Rice, Bloomdale
 Kelly Jo Richardson, Wapakoneta
 Eric G. Riddle, Columbus
 Rudy Lynn Ridenbaugh, Beach City
 Patricia Eileen Riege, West Alexandria
 Bernard Joe Rieser, Ashland
 Jennifer Dawn Riffle, Bellevue
 Thomas Allan Rine, Howard
 Sherri Lynn Rinker, Pendleton, IN
 Terri Ann Rinker, Pendleton, IN
 Barbara Williams Ritchie, Hudson
 Vicky Lynn Roark, Orient
 Robin Lynn Roberts, Kent
 Marco Rodriguez, Brook Park
 Kenneth R. Roe II, Wheelersburg
 Michael Roeper, Lindenhurst, NY
 Elizabeth Marie Rolfes, Lakewood
 Bonita Lynn Rolletta, Newark
 Edoardo Roncone, Columbus
 Robert Glen Root, Galloway
 David Kirk Roper, Strongsville
 Christopher Alan Rose, Westerville
 Jacqueline L. Rose, Mansfield
 Jennifer Tracy Rose, Youngstown
 Jerald Mark Rosenston, Cincinnati

June Marie Ross, Carroll
 Kyp Lodge Ross, Marietta
 Lucia Lenaye Ross, Columbus
 James Rossi, Euclid
 Wendy Susan Roth, Girard
 Kimberly Blair Rothman, Avon Lake
 David Berry Rownd, North Canton
 Rex Charles Roy, Westerville
 Donna Anne Ruch, Houston, TX
 Michael Patrick Russell, North Royalton
 Sunil Sabharwal, Budapest, Hungary
 Jeffrey A. Salisbury, Beaver
 Joseph T. Saloom, Jr., Youngstown
 Suantar Samsurya, Worthington
 Randy L. Sanders, Mt. Sterling
 Thomas Michael Sandry, Coshocton
 Timothy Laurence Sarver, Alliance
 Leanne Sater, Olmsted Falls
 Anthony Joseph Scalia III, Kettering
 Joseph Andrew Scarff, Portage, MI
 David Jack Schaffner, Westerville
 Michael Allen Scheetz, Reynoldsburg
 Kristine Ann Schetter, Toledo
 Jeffrey L. Schiciano, Hudson
 Eric Scott Schmidt, Vandalia
 Andrew P. Schneider, Nankin
 Michele Susan Schrage, Marion
 Christina Louise Schryver, Warren
 Ronald Roy Schweiger, Williamsburg
 Denise Ann Sciarini, Perrysburg
 Michele Ann Sedlock, Columbus
 Kim A. Seeling, Columbus
 Todd Frederick Seibert, South Euclid
 Daniel Kevin Shaw, Circleville
 Jennifer Lynn Shaw, Frazeysburg
 Ruth A. Shay, Columbus
 Sung Ho Shin, Broadview Heights
 Susan Marie Sholtis, Brooklyn Heights
 Lori Ann Shomaker, Utica
 Sandra Catherine Shrader, Cincinnati
 Gary John Shull, Cherry Hill, NJ
 Phillip Patrick Sielatycki, Brunswick
 Russell Alan Simmons, Beachwood
 Richard Francis Simonetti, Worthington
 Krista G. Singer, Smithville
 Jane Ann Slobodzin, Port Clinton
 Todd Norman Smetzer, Whitehouse
 Gregg Andrew Smith, Newark
 James Scott Smith, Bremen
 Kent Callander Smith, London
 Rachel Michele Smith, Westlake
 Teresa H. Smith, Columbus
 Tracy Kara Smith, Dublin
 Chee Yong Sng, Thomson, Singapore
 Thomas Hern Snider, Grove City
 Patricia L. Snyder, Toledo
 Julie Lynette Soltzes, Upper Arlington
 Amy Jo Somera, Bedford
 Jeffrey Marc Sonkin, Beachwood
 Ryan Sam Sooy, Homerville
 Lisa M. Sordi, Solon
 Christine A. Spear, Marion
 Bradley Allen Spees, Dayton
 Brian R. Spires, Columbus
 Julia Elizabeth Stark, Kettering
 Paul Edward Stebel, Bellbrook
 Mitchell Dean Steenrod, Lakeview
 Timothy Robert Steffi, Marion, IL
 Kristina V. Stephan, Columbus

Michael J. Sterle, Cleveland
 Kimberly Ann Stevenson, Utica
 Laura Frances Stock, Middleburg Heights
 Jeffrey Allen Stockdale, East Liverpool
 Andrew Leslie Stone, West Carrollton
 Michele Anita Stubbs, Akron
 Theodore Joseph Stumphauer, Avon
 Dino Sukendro, Jakarta, Indonesia
 Urvi Bakul Sutariya, Columbus
 Joseph Michael Sweeney, Euclid
 Lisa Jean Swineford, Olivesburg
 Farah Shujaudeen Talib, Bombay, India
 Nikolina Taneff, Pickerington
 Robert Gordon Tasney, Columbus
 Dorothy Elizabeth Taylor, Columbus
 Jeffrey Scott Taylor, Bay Village
 Susan Irene Terrill, Ridgeway
 Todd James Tharp, Westerville
 Curtis Keith Thogmartin, Columbus
 Allyson JoAnne Thompson, Albion, NY
 Cindy Ogle Thompson, Newark
 Tod Darrin Thompson, Jewett
 Roxane Renee Threm, Ypsilanti, MI
 Ross Alan Timmons, Marion
 Erman Tjia, Medan, Indonesia
 Erwin Tjia, Medan, Indonesia
 Randolph Joseph Tomasek, Elyria
 Diane Lynn Torski, Mansfield
 David Mario Tortorella, Ravenna
 Gregory Michael Troyan, Westlake
 Dwight David Truax, Woodfield
 Michael William Tymoszczuk, Parma
 William J. Ubbing, Columbus
 Kimberly Ann Ulm, Lancaster
 Timothy Michael Vaio, San Rafael, CA
 Randall Brown Van Hove, Ashland
 Mary A. Van Kuren, Dublin
 Michael Allen VanPutte, Rochester, NY
 Tery Albert Vari, Youngstown
 Shana Lynne Vazsonyi, Centerville
 Tim Christopher Velky, Stow
 Joseph John Vishey, Chagrin Falls
 John B. Voorhies, Dublin
 Jeffrey Clayton Wade, Cincinnati
 James Lowell Wagner, Lima
 Jeffrey J. Walczak, Toledo
 Janet Marie Waller, Lorain
 Chun Ming Wang, Singapore, Singapore
 Robert Shawn Wanucha, Toledo
 David Charles Ward, Salem
 John H. Ward, Columbus
 James Ralph Weaver, Grand Rapids
 Curtis George Webel, Mansfield
 Gerald Robert Wehrman, Fort Lorame
 Patrick Lee Weisgarber, Massillon
 David Bryan Weiss, Columbus
 Lauren Elizabeth Weiss, Beachwood
 Susan Beth Weissberg, Cleveland
 Christopher Stewart Welch, Worthington
 Ann Elizabeth Wertz, Maumee
 William Andrew Wetta, Columbus
 John Vincent White, Bay Village
 Kenneth George Wichman, Columbus
 Monty Paul Wickerham, Port Clinton
 Kathryn Jean Wilcox, Elyria
 Mark Edward Wilke, Columbus
 Robert N. Wilke, Columbus
 Steven Kirk Williams, Columbus
 Timothy K. Williamson, Cincinnati

Pamela Sue Willis, Canal Winchester
 Curtis Lamar Wilson, Akron
 Kelly Lynn Wilson, Worthington
 Paula Helene Windle, Columbus
 Susan Michelle Winslow, Gahanna
 Judith Lynn Wisbith, Pleasant Plain
 James Martin Wogaman, Worthington
 David Kenneth Wolfe, Akron
 Steven Matthew Wolfe, Columbus
 Thomas John Woods, Basking Ridge, NJ
 Brian Edward Worth, Columbus
 Cheryl Lynn Wyatt, Columbus
 Lay Kuan Yeo, Melaka, Malaysia
 Christine Luce Young, Columbus
 Mark William Young, Decatur, IL
 Robert J. Zadkovich, Richmond Heights
 Michael D. Zawadski, Williamsville, NY
 Scott Daniel Zehnal, Crystal Lake, IL
 Ronald R. Zeppernick, University Heights
 John Nicholas Zuppas, Wadsworth

College of Dentistry

Dean: William R. Wallace

Doctor of Dental Surgery

Lisa Jo Adornetto, North Canton
 B.A. (Saint Mary's College)

Alexander Dennis Alavanja, Seven Hills
 B.S. (John Carroll University)

Joseph Victor Alvarez, Crown Point, IN
 B.S. (Valparaiso University)

David K. Andrews, Dayton

Benjamin Dean Babcock, Mansfield
 B.S. (Mount Union College)

Brenda Kay Bailey, New Philadelphia
 B.S. (Brigham Young University)

Carolyn Ann Barber, Stow
 B.A. (Case Western Reserve University)

Jeffrey Robert Bartnik, Agawam, MA
 B.A. (American International College)

Joseph David Bedich, Warren
 B.A. (Miami University)

Thomas Mathew Bilski, Strongsville
 B.S. (Baldwin-Wallace College)

Gary Louis Boano, Struthers
 M.S. (Youngstown State University)

Helen Elizabeth Bozok, Columbus
 B.S. (University of Michigan)

Michelle Joyce Brichacek, Garfield
 Heights
 B.S. (Saint Louis University)

Duane Allen Burks, Shelby B.S. (Miami University)	Carl Roger Fleser, Waverly B.S.Pharm.	B.A. (Wittenberg University)
Robert Eric Burns, Mt. Vernon B.A. (Miami University)	David Michael Flint, Williamston, MI B.S. (Michigan State University)	Richard Andrew Kormos, Jr., Chagrin Falls B.A.
Charles Lewis Butts II, Lima B.A. (Miami University)	James Bradley Ford, Findlay B.S.	Derrick Mark Kruger, Shaker Heights B.S.
Clarence Lester Camp, Jr., Detroit, MI B.S. (Wayne State University)	Robin Teresa Ford, Bath B.A. (Miami University)	Kevin Joseph Krupp, Lorain B.S. (Miami University)
Robin Lee Anne Capaldi, Canton M.S. (University of Akron)	Thomas John Frankfurth, Akron B.S. (Washington & Lee University)	Glenn Joseph Kuemerle, Canton B.A. (Case Western Reserve University)
Heather Lynn Childers, Buffalo, NY B.S.	Robert David Garland, Cincinnati	Lan Ngoc Lam-Law, Saigon, Vietnam B.S. (Xavier University)
Daniel John Clark, Paulding B.A. (University of Toledo)	Connie Denise Gawrych, Steubenville B.A. (University of Steubenville)	Melanie Boyd Leak, Dublin B.S. (A & T State University)
Kevin B. Cochran, Mt. Vernon B.S. (Heidelberg College)	Philip Lawrence Gingrich, Gahanna B.S.Pharm.	Richard Scott Mayo, Boardman B.A. (Wittenberg University)
Karen Colleen Conlin, Wilmington, DE M.S. (University of Georgia)	William Joseph Gioiello, Warren B.S. (Youngstown State University)	James Thomas Meiring, Minster B.S. (Bowling Green State University)
Thomas E. Cooke, Plainfield, NJ B.S. (University of Dayton)	William Robert Glockner, Lancaster B.S. (Xavier University)	Daniel Scott Merker, Zanesville B.A. (Miami University)
Janine Kay Cornelius, Cuyahoga Falls	Nancy Elizabeth Gress, Melville, NY B.A. (Hofstra University)	Lairy Wayne Miller, Cincinnati B.S. (University of Cincinnati)
Brian Edward Crock, Pickerington B.A. (Miami University)	Maria Catherine Haas, Akron	Lloyd Ray Miller, Cincinnati B.S.Pharm. (University of Cincinnati)
David Lee Crowe, Kitts Hill B.S. (Marshall University)	William Albert Hampton, South Point B.S. (Marshall University)	John T. Moon, Bellefontaine B.A. (Case Western Reserve University)
Thomas William Danford, New Matamoras	Robert Louis Heller, Columbus B.S. (Ohio Wesleyan University)	Todd Evan Nicol, Cuyahoga Falls
Dean Richard Davis, Zanesville	Theresa Deogracias Heringhaus, Seven Hills B.A. (Saint Louis University)	Thomas Arthur Niederhelman, Cincinnati B.S. (University of Cincinnati)
Michael P. DiMauro, Akron B.S.	Gregory Eugene Herkert, Cincinnati B.S. (University of Cincinnati)	Anna Padva, Columbus B.A. (Queens College)
Melody Pritchard Dutton, Akron B.S. (Ohio Northern University)	Todd Andrew Heydinger, Bellefontaine B.A. (Miami University)	Vladimir Aleksandar Petkovski, Parma B.S. (John Carroll University)
Gregory Edward Dykes, Solon B.A. (Miami University)	Gregory Benjamin Iaderosa, Youngstown B.S. (John Carroll University)	Gary Martin Piorkowski, Chandler, AZ B.S.
Mark Stephen Ehrhardt, Medina B.S.Agr.	John Harvey Irvin, Jr., Wintersville B.A. (University of Steubenville)	Steven Elliot Polasky, Plantation, FL A.A. (University of Florida)
Brian David Ehrman, Worthington B.S. (Heidelberg College)	Matthew Stephen Johnson, Painesville B.Ch.E. (Cleveland State University)	Neal John Postel, Middleburg Heights B.S.
Melissa Jane Eicher, Steubenville	John Raymond Keim, Barberton B.S.	John James Ragaji, Barberton B.S.Pharm.
Susan Ferritto, Grafton B.S. (University of Toledo)	Dean James Kiourtsis, Upper Arlington B.S.	D. Drew Rathbun, Vermilion
Mark Steven Fisher, Grove City B.S.	John Joseph Koberlein, Uniontown B.S. (University of Akron)	Gretchen Kay Raymond, Lima B.A. (Miami University)
Donald Brent Fissel, Columbus B.S.Pharm.	Christopher Peter Kondas, Brookville	Ronald L. Roddy, Beavercreek B.S. (Grace College)

Laura Marie Romito, Ravenna
B.S.Food Sc.

Byron Rossi, Warren
B.A. (Oberlin College)

Richard Allen Ruff, Crooksville
B.S. (Bowling Green State University)

Ernesto Geraldo Sabato, Cincinnati
B.S. (University of Cincinnati)

John R. Sadaghiani, Delaware

Kurt Thomas Scheetz, New Middletown

Jeffrey Ray Schoning, Ravenna
B.S.

Thomas H. Siefker, Kalida
B.S.Bus.Adm.

Marc Harold Silverman, Cincinnati

Marie Ann Simon, North Royalton

Marc Howard Sirkin, Cincinnati
B.S.

Dawne Elisabeth Slabach, Mansfield
B.S.

Douglas Erwin Snouffer, Columbus
B.S.

David Michael Sorboro, Cuyahoga Falls
B.S. (University of Akron)

George Andrew Souris, North Olmsted
B.A. (Miami University)

Douglas Alan Stuckey, Port Clinton
B.A. (Miami University)

Timothy Earl Thetford, Toledo
B.S.

George Lee Trask, Pierpont

Roger Dale Turner, Louisville, KY
B.A. (University of Louisville)

Craig Todd Wakefield, Madeira
B.A. (Indiana University)

Lawrence Thomas Weir, Orrville

Gregory William Welsh, Youngstown
B.S. (University of Dayton)

Jonathan Sebastian White, Steubenville
B.S. (Ohio University)

Eric Schilling Wissler, Chillicothe
B.S.

Kevin Bruce Wright, Columbus
B.A. (Miami University)

Robert Brian Yacko, Youngstown
B.S. (Youngstown State University)

Chung-Cheng Yu, Taipei, Taiwan, R.O.C.
M.S.

Nancy Lynn Zagunis, Garfield Heights

Bachelor of Science in Dental Hygiene

Karen Sue Bray, Salineville
Annette Marie Defelice, Columbus
Melanie Jonson, Centerville
Laura Christine McMahon, Warren
Kristin Kara Oltz, Champaign, IL
Allison Jeanne Port, Youngstown
Brenda Lea Schneider, Lowell
Marsha Jane Spraggins, Tiffin
Maria Lana Walusis, Dayton
Lisa Marie Williams, Mt. Vernon

Certificate of Graduate Dental Hygienist

Anne Marie Buttress, Columbus
Deborah Lynn Carcione, Mansfield
Mary Katherine Chirumbole, Orrville
Tracy Ann Combs, Middletown
Gina Isabel Espinoza, Los Angeles, CA
Jane Anne Gillespie, Waterford
Cynthia Lee Krebs, Westerville
Kandie Dawn Lambert, Columbus
Darlene Klapkowski Mahilo, Gahanna
Terra Sue Sellman, Kenosha, WI
Amina Abul-Qasim Shahid, Cleveland
Jill Elizabeth Staver, Lima
Karen Sue Tarpoff, Springfield

College of Education

Dean: Donald P. Anderson

Bachelor of Science in Education

Beth Mogul Abraham, Canton
Ann Margaret Alge, Fostoria
Cynthia Gail Alleman, Columbus
Jill Colleen Anderson, Worthington
Tami Jean Appleman, Pickerington
Sonja Joy Arnowitz, Columbus
Paul William Ave, Cincinnati
Carrie Jean Baker, Wintersville
Patricia Rene Baker, Beavercreek
Robin Joy Baker, Orient
Julie Elizabeth Baldini, Worthington
Pamela Kay Barnett, Galion
Robin Lynn Barr, Dublin
Leisa Ann Basiger, Delaware
Timothy Garn Baumberger, Shiloh
Barbara Teetor Beach, Marion
Beverly K. Beal, Bellville
Robert A. Bechtel, Lima

Sharon Lee Beets, Columbus
Mary Katharine Bell, Coshocton
Darlene Marie Berres, Delphos
Jeff L. Berringer, Marion
Tiffany Ann Bice, Lima
Joanne Biggins, Wickliffe
Jana Joan Blamble, Columbus
Phyllis Marie Boggs, Perrysville
Anne Marie Bonacci, Copley
David Scott Bowen, Van Wert
Laura Marie Bower, Columbus
Joan Brannan, Perry
Laura Marie Brechbill, Columbus
Julie Ann Breitgam, Jenera
David Patrick Brink, Columbus
Kristin Diane Brockmann, Cincinnati
Angela Louise Brotton, Dublin
Beth Ann Brown, Bluffton
Veronica Leigh Brown, Mansfield
Mary Louise Brown-Wilson, Delaware
Fredrik Paul Bruhn, Mansfield
Fian Ellen Brum, Powell
Timothy Edward Brumfield, Worthington
Deanna Eileen Brusadin, Worthington
Arthur Dean Bryant, Harrison
Julie Ann Buchanan, Cincinnati
Anne Marie Buttress, Columbus
Anthony D. Butts, Columbus
Matthew Eldon Byerly, Columbus
Rebecca Jane Byrne, Wapakoneta
Christine Sue Canter, Nashport
Deborah Lynn Carcione, Mansfield
Karen Jo Carpenter, Bucyrus
Patricia Gail Cavener, Prospect
Irene Pui-shan Chan, Columbus
Elizabeth Ann Chaney, Westlake
Mary Katherine Chirumbole, Orrville
Christine M. Chorovich, St. Clairsville
Velvet-Dove Chrissan, Lima
Susan Jeanette Chumley, Steubenville
Matthew David Clark, Wooster
Neil Scott Clarridge, Grove City
Sharon Marie Clonch, Fayetteville
Kristin Sue Colby, Dublin
Denise Jayne Cole, Conneaut
George Dempsey Combs, Springfield
Rebecca Ann Comisford, Newark
Brenda Louise Conaway, Worthington
Cathleen Sue Conrad, Columbus
Kimberly Kay Conrad, Lexington
Charles Elisha Conway, Mt. Sterling
Scott Alan Coon, Wadsworth
Hal Wayne Cooper, Columbus
Anthony Paul Corcoran, Niles
Elizabeth Ann Core, Rushsylvania
Holly Anne Cornelius, Avon Lake
Candace Lynn Corroto, Columbus
Marni Lee Crabtree, Celina
Christopher Paul Crosby, Spokane, WA
Linda Lou Cross, Warren
Cris Renee Crum, Marion
Jane K. Cummings, Delphos
Kay Barber Cunningham, Lima
Matthew Hoyt Cygnor, Toledo
Andrea B.C. Dakin, Dayton
Holly E. Schaufler Daniels, Canton
Robert Arthur Daniels, Columbus
Amy Elizabeth Darling, Worthington
Michele Lynette Darling, Warsaw

Cheryl Norris Davis, Worthington
 Julie Ann Davis, Newark
 Kara Michelle Dearth, Bellville
 Jeffrey Scott Decker, Worthington
 David Van Nostrand Dickinson, Dublin
 Michele Denise DiFilippo, Steubenville
 Laurie Lee Dillman, Reynoldsburg
 Janet Sauder Diningier, Mt. Vernon
 Devera Dawn Disterdick, Cardington
 Ann Beth Dolan, Pittsburgh, PA
 Shadye Chapman Dotson, Pataskala
 Thomas William Doyle, Marion
 Nancy Michelle Dragan, Chesterland
 Mary Margaret Drake, Circleville
 Julie Lee Drebus, Kirtland
 James Swinton Dulaney, Columbus
 Kathleen Sue Durkin, Akron
 Robert Alan Durrett, Columbus
 Patricia Joan Eaton, Amlin
 Teresa Jo Eckert, Cincinnati
 Christine Randolph Eddy, Waldo
 Anita Marie Elgin, Columbus
 Karen Sue Ellis, Mansfield
 Elizabeth Hope Ellis, Timonium, MD
 Richelle Lee Engel, Cincinnati
 Mike Scott England, Lima
 Marsha Kay Erickson, Delaware
 Beth Anne Erter, Kenton
 Amy Jo Estey, Troy
 Michele Denise Evans, Uniontown
 Lynn Mitchell Exline, Dublin
 Constance Elaine Fair, Sidney
 Carol-Lyn Falanga, Wadsworth
 Robert Eric Farmwald, Doylestown
 David John Fink, Plain City
 Janet Sue Fink, Mt. Blanchard
 Lisa Kay Finney, Woodsfield
 Lori Ann Finney, Woodsfield
 Beth Huddleston Fisher, Gahanna
 Sara Beth Fisher, Columbus
 Jill Annette Fockler, North Canton
 Lisa Sue Ford, Harrod
 Connie Lee Fornash, Savannah
 Christine Ann Fox, Worthington
 Cindy Patterson Fox, Columbus
 Laura Ann Francis, West Jefferson
 Tracy Lyn Frankart, Bloomville
 Beth Ellen Froning, Sidney
 Deborah Murnane Funk, Columbus
 Kelly Sue Gabriel, Worthington
 Renee Lynn Gales, Brunswick
 Teresa Marie Gibson, Westerville
 Denise Ellen Giesecke, Columbus
 Chris Ellen Gilmore, Columbus
 Linda Anastasia Goehner, Columbus
 Shannon Cory Gonzales, Powell
 Sherri L. Goodlive, New Washington
 Kimberly DeLynne Goodwin, Newark
 Gabrielle Elaine Gordon, Columbus
 Pamela Jean Graber, Plain City
 Kerry Shannon Graham, Whitehall
 Douglas Joseph Green, Caledonia
 Julie Ellen Greene, Lima
 Margaret Elanore Greer, Chillicothe
 Mary-Ellen Greer, Cincinnati
 John Basil Grena, Bexley
 Steve Michael Gresock, Youngstown
 Jean Louise Griffith, Lakewood
 Patricia Gail Griffiths, Shelby

Debra Badertscher Grumblis, Wapakoneta
 Michelle Rene Hamel, Columbus
 Jean A. Hamel, Ottawa
 Elizabeth Anne Harbaugh, Lancaster
 Mary Beth Hart, Fremont
 Holly Anne Hartman, Hebron
 Bette Jean Hartschuh, Sycamore
 Marcia Sue Hayes, Columbus
 Debra E. Heffner, Dublin
 William Patrick Heinmiller, Columbus
 Lisa Jo Heiser, Columbus
 Mary Ann Henderson, Stow
 Jilaine Marie Henley, Gahanna
 Jo Ellen Hensel, Upper Sandusky
 Serena Fay Hersh, Cleveland
 Brian Keith Hessey, Nevada
 Steven Thomas Hipes, Columbus
 Jessie Raymond Hite, Jr., Lockbourne
 Jill Marie Hitt, Worthington
 Melani Anne Hobbs, Toledo
 Jeffrey Ross Hodges, Bellaire
 Valerie Ann Hoenie, West Jefferson
 Allen James Hofmeister, Worthington
 Judith Bond Holton, Hebron
 Hillary Karin Hook, Brecksville
 Clifford L. G. Hooks, Columbus
 Marcia Doreen Horn, Fairfield
 Dawn Mischell Hornikel, Newton Falls
 Robert C. Horrocks, Sr., New Carlisle
 Alan Arthur Hostetler, Tiffin
 Elizabeth Anne Houchens, Cincinnati
 Jane Elizabeth Houston, Akron
 Maria Yvette Hovanic, Salem
 Matthew Lloyd Hower, Worthington
 Peggy Lynn Hubschman, Mt. Gilead
 Valerie Barber Huels, Gahanna
 Paul Thomas Huffman, Newark
 Karen Marie Hughes, Bexley
 Lauren E. Hunter, Pepper Pike
 Kathryn Jo Hurley, Ironton
 Sharyl Alyse Hurt, West Jefferson
 Kathy J. Hutchison, Dublin
 Karen Ann Hyde, Branford
 Kerri Anne Imes, Pataskala
 Melissa Kay Indorf, Dalton
 Joyce Elaine Ingold, Mansfield
 Amy Sue Jackson, Tipp City
 Deborah Sue James, Dunkirk
 Carla Ann Jennings, Lima
 Catherine Lynn Johnson, Circleville
 Claudette Johnson, Columbus
 Vicki Lee Johnson, Coshocton
 Annette Gail Josen, Sandusky
 Josephine Joan Joseph, Canton
 Scott Donald Julien, Columbus
 Virginia Rohrer Kaiser, Poland
 Susan Jane Kaliszewski, Avon Lake
 Barry Ralph Kanner, Hilliard
 Samuel Israel Kanter, Columbus
 Kathleen Elizabeth Keane, Bay Village
 Mary Karen Keber, Van Wert
 Katherine M. Kegelmeyer, Marion
 Scott Richard Keithline, Coshocton
 Laurie Lynn Kelley, Canton
 Michelle H. Kemp, Mansfield
 Mary Richmond Kennedy, Columbus
 Pamela Jean Kerth, Cincinnati
 Joanna Lynn King, Panama City, FL
 Tammy Jean Kirian, Fostoria

Desma Denise Klopfenstein, Haviland
 Melinda Elizabeth Knouse, Westerville
 Catherine Marie Knox, Columbus
 Dinah Catherine Kohn, Gahanna
 Karen Noel Krautz, Wichita Falls, TX
 Cynthia Lee Krebs, Westerville
 Jeffrey Alan Krol, Martins Ferry
 Carl Richard Krueger, Wooster
 Karen Louise Krupa, Columbus
 Kandie Dawn Lambert, Columbus
 Sarah Lynne Lambert, West Farmington
 Cynthia Vangas Lancaster, Fort
 Lauderdale, FL
 Penny Sue Lang, Portsmouth
 Douglas Andrew Lapp, Coshocton
 Janie Lynn Lauver, Westerville
 Timothy Allen Lawrence, Westerville
 Douglas Michael Leatherman, Rittman
 Diane Marie Lehmkuhl, Bellevue
 Susan K. D. Leonhart, Columbus
 Jacqueline Sue Lepley, Bellevue
 Victoria Ann Lindsey, Columbus
 Kimberly Jean Line, Columbus
 Rosa Lion, Santiago, Dominican Republic
 Susan Alane Long, Shadyside
 Tracy Lynn Longacre, Fostoria
 Derrick Lovelace, Cleveland Heights
 Betty J. Lukz, Columbus
 Kimberly Ann Mackey, Kettering
 Kristen Marie Magers, Attica
 Deborah Maize, Columbus
 Leslie Jane Marlin, Columbus
 Daniel L. Martin, Johnstown
 Jacqueline Yvette Martin, Delphos
 Eric Lee Mason, Lima
 Laura Leslie Mathews, Heath
 Christopher John Matlock, Mayfield
 Heights
 Jane E. Matrunick, Ashley
 James Jude Maxwell, Marion
 Peggy Maureen McBride, New Concord
 Lauren Kay McCann, Fairfield
 Colleen Marie McCarthy, Canton
 Kathy Lynn McDermott, Worthington
 Kelly Ann McGreal, Garfield Heights
 Ronda Sue McIntyre, High Point, NC
 Brenda Kay McMullen, Jacksonstown
 Mariana Amy McNamee,
 Parkersburg, WV
 Kathy Lynn McNelly, Arcanum
 Chad Eric Meddles, Marysville
 Cathy Lynn Mere, West Jefferson
 Aron Jon Mettes, Toledo
 Layne Alison Meyer, Sidney
 Kerin Louise Middleton, Kenton
 Stacie Jo Miller, Toledo
 Darrell Paul Minor, Uhrichsville
 Marjorie Christine Miranda, Westerville
 Laura Kathryn Mohr, Sylvania
 Kathleen Marie Molloy, Port Clinton
 Juli Ann Montgomery, Columbus
 Stacey Sue Montgomery, Shadyside
 Deborah Jo Moore, Newark
 Jacqueline Sue Moore, Columbus
 Shannon Leslie Moore, New Albany
 Barbara Ann Morgan, Columbus
 Mary Martha Morgan, Columbus
 Julie Ann Morrison, Upper Sandusky
 Jeffrey Alan Muehlfield, Dublin

Chrystal Renee Mullins, Grove City
 Emma L. Myers, Pataskala
 Julie Ann Natelson, Edison
 Bonita Denise Nauman, Marengo
 Donna Lavon Neal, Grove City
 Cynthia Anne Ness, Circleville
 Kristi Noell Neuman, Fridley, MN
 Amy Lou Nickel, Hudson
 Christine Ann Nielsen, Alliance
 Mary Alice Niese, Lima
 Carolyn Sue Noland, Marysville
 Pamela Marie Noreault, Malone
 Ann Marie Northrup, Toledo
 Stephen Guillerrey Norton, Westerville
 James Patrick Nye, South Euclid
 Mercedes Maria Olivera, Canton
 Sabra Lynn O'Neal, Mansfield
 Beth Anne O'Rourke, Fairlawn
 Tamari Lynn Overholser, Springfield
 Susan Adelle Owens, Columbus
 Michael Allan Pancake, Convoy
 Tracy Jean Parker, Avon Lake
 Stephen Anthony Parrill, Springfield
 Deborah Kay Patrick, Ashland
 Deborah Lynne Patterson, Cleveland Heights
 Teresa Ann Peddemors, Clarkston, MI
 Michael David Penn, Westerville
 Rhonda Sue Peters, Lockbourne
 Scott Geoffrey Peters, Beachwood
 Carolyn Jean Pettit, Galloway
 Hope Elaine Piper, Johnstown
 Melanie Ann Place, Columbus
 Jane Ellen Plouge, Worthington
 Diane Sue Pollock, Findlay
 Michael Joseph Pottmeyer, Granville
 Marshall Curtis Pratt, Rockford
 Loria Ann Pryor, Columbus
 Jane Katherine Puleo, Novelty
 Laura Elizabeth Randa, Wilmington
 Kerri Kay Reading, Whitehall
 Donita Renee Reese, Jackson Center
 Jeanne Allison Rempe, St. Mary's
 Judy Ann Renemans, Danville
 Tracy Lee Richards, Westerville
 Kathy Lynn Richardson, Cridersville
 Connee Mae Ricketts, Centerville
 Marsha Marie Rickly, Valley City
 Julie Ann Riegler, Enon
 Dominica Ann Rigby, Painesville
 Mark Daniel Ritzenthaler, Columbus
 Mary Lou Roberts, Pataskala
 Lisa Marie Roelke, Hinkle
 Katy Lu Romp, Vermilion
 Zoraba Q Ross, Marion
 Kevin Gene Rutter, Elida
 Lila Sabella, Canton
 Stacey Marie Sams, Dayton
 Ronda Sue Sarver, Rockwood
 Carolyn Anne Scarry, Columbus
 Suzanne Sickels Schaefer, Delphos
 Susan Marie Schafer, Lima
 Catherine Ann Schilling, Newark
 Karl Richard Schrag, Defiance
 Catherine Ann Schultz, Grove City
 Renee Christine Scott, Bellefontaine
 Marci Ann Seaman, Beachwood
 B. Craig Shank, Springfield
 Kristine Kay Shepler, Beaumont, TX

Jill Susan Shleier, Dayton
 Marci Sloane Shmarak, Worthington
 Amy Kathleen Sievert, North Canton
 Nancy V. Singer, Westerville
 Tonya Sue Skinner, Thornville
 Dawn Slack, Columbus
 Sandra Kay Slane, Mansfield
 Rita Carol Slone, Lucasville
 Vicki Lynn Snider, Pleasant Plain
 Gregory Richard Snow, Lima
 Kara Lynn Snyder, Wapakoneta
 Elizabeth Ann Solt, Arlington
 Kathleen E. Squires, Westerville
 Gary R. Stillman, Columbus
 Cheryl Diane Stitt, Crown City
 Kevin Scott Stone, Galion
 Denise Wynn Studer, Polk
 Susan Marie Stump, Kettering
 Mary Beth Sullivan, Portsmouth
 Peter James Summers, Zanesville
 Scott Andrew Sweet, West Jefferson
 Melanie Kay Tarbutton, Heath
 Delia Rae Tarris, Columbus
 Kathie Sue Thatcher, Lima
 Michelle Elaine Thomas, Westerville
 Thomas Reese Thomas, Lima
 Patrick Gerard Thompson, Lima
 Lucas Leroy Todd, Mansfield
 Stephanie Kathleen Tompkins, Delaware
 Tiffany Diane Toombs, Mansfield
 Sandra Lou Treadway, Delaware
 Eva Christine Turley, Upper Sandusky
 Marcelle Leigh Vitti, Hingham, MA
 Elizabeth Ann Walker, Westerville
 Erika Therese Walker, Columbus
 Stephanie Smith Warmke, Columbus
 Kimberly Kay Warner, Reynoldsburg
 Richard Alan Warren, Hilliard
 David Michael Watros, Warren
 Julie K. Watson, Springfield
 Darin Christopher Waugh, Columbus
 Beth Ann Weaver, Newark
 Julie Beth Weaver, Columbus
 Wendy Elizabeth Webb, Columbus
 Melissa Margaret Weber, Pickerington
 Eileen Marie Weidner, Columbus
 Marsha Sue Weikel, Fredericktown
 Jeffrey Lee Weisner, Holland
 Susan Marie Weiss, Columbus
 Gretchen Kay Weller, Columbus
 Timothy Gerard Wenning, Yorkshire
 Theresa Maria Whalen, Dayton
 Bonita Lee White, Bexley
 Julia Marie Wiant, West Liberty
 Jerry Kevin Wieman, Mt. Cory
 Patricia Louise Wilms, Bedford
 Pamela Sue Wilson, Plain City
 Donna Leigh Winkler, Columbus
 Susan Renee Winter, Columbus
 Bruce William Winters, Mansfield
 Brian Jon Wischmeyer, Ottawa
 Dana Marie Wright, Hilliard
 Blyth Marie Wurth, Columbus Grove
 Fumi Yokota, Ichihara-shi, Japan
 Christine Elizabeth Young, Columbus
 Christine Anne Zawadowski, Saginaw, MI
 Sarah Ellen Zeisler, Marion

Bachelor of Art Education and Bachelor of Music Education degrees are offered jointly by the College of the Arts and the College of Education. Candidates are listed under the College of the Arts.

College of Engineering

Dean: Donald D. Glower

Bachelor of Science in Aeronautical and Astronautical Engineering

David Adamczak, Lakewood
 Rother M. Alda, Columbus
 Cynthia Karin Alexander, Anchorage, AK
 David Alan Ault, Mansfield
 Saulius J. Bankaitis, Fairview Park
 Bradley Charles Basile, Youngstown
 James Patrick Batka, Beavercreek
 Donald Lee Blair, Jr., St. Clairsville
 Bradley John Brinzo, Strongsville
 Helen Claire Brown, Strongsville
 Edward Albert Burrows, Bohemia, NY
 Gene Colin Campbell, Columbus
 Ronnie Salta Catipon, Columbus
 Ronald Allen Clark, Las Vegas, NV
 David Philip Conser, Youngstown
 Elia John Diamessis, Youngstown
 Leslie Arlyn Doud, Palos Verdes, CA
 Mark Joseph Due, Sylvania
 Carol Elaine Elbert, Mansfield
 Robert Michael Gabel, Tiffin
 Robert Keith Goldberg, Berea
 Thomas Wesley Greenman, Willingboro, NJ
 Dale Anthony Greagan, Brunswick
 David Charles Gross, Cambridge
 Timothy Scott Harless, Riverton, WY
 Scott Michael Herzog, Cincinnati
 Bradford Eugene Houser, Sundial, PA
 Wesley William Jackson, Columbus
 Glenn V. Johansen, Millbury
 Sharolee Ann Kepler, Edgerton
 Bruce G. Kline, Tallmadge
 Paul R. Kronz, North Olmsted
 Ruth Evelyn Kucheravay, New Albany
 Steven Waid Lingenfleter, Warren
 David Roger Lollini, Belmont
 William Henry Marvin, Lindenhorst, NY
 David Charles Meyer, Cincinnati
 Kirk Allen Montgomery, Hartsville
 Patrick Robert Mullen, Cleveland
 Christopher Allen Nelson, Youngwood, PA
 Glenn Herbert Nichols, Cincinnati
 William Usilton Notardonato, Westlake
 James Patrick O'Donnell, Lakewood
 David Lloyd Perry, Wooster
 John Brady Phillips, Columbus
 Anthony Joseph Pucciarella, Baltimore, MD
 Terry Alan Richards, Zanesville
 Jeff E. Roan, Bryan
 Jeffery John Ruplinger, Campbellsport, WI
 William Steven Schreiner, Lakewood

David Vincent Schuehler, Cincinnati
 Martin Lee Smith, Beavercreek
 Stephen Kenneth Smith, Columbus
 George Chris Soulas, Columbus
 Richard Edwin Stanton, Columbus
 Boris Frederic Streun, Upper Arlington
 Ronald Sylva, Cincinnati
 Janet Sue Teets, Marysville
 Christopher John Tomko, Cortland
 Michael Rutgert Van der Veer, Sylvania
 Rafael Villalba, Jr., Cherry Hill, NJ
 Philip Stephen Weissman, Cincinnati
 John Phillip Wojno, Akron
 Jon Andrew Yencho, Lakewood

Bachelor of Science in Agricultural Engineering

Dale Norman Clapsaddle, East Liberty
 Darrin John Drollingier, Medina
 Michael Lynn Marteney, Carrollton
 Charles Wayne Schalk, Avon
 Daniel William Whited, Whitehall
 Paul Joseph Yaufman, Ottawa

Bachelor of Science in Aviation

Rother M. Alda, Columbus
 Shawn Miller Bakies, Carey
 Michael Richard Bray, Beavercreek
 William Thomas Claypoole, Groveport
 Charles Andrew Fineran, Zanesville
 Raymond Arthur Heasley, Columbus
 Wayne Steven Heiler, Hamburg, NY
 Kevin Bruce Hillman, Warren
 Kent Edward Koch, Alma, MI
 Mark Allen Kuttrus, Canton
 Kristopher Haakon Lee, Cuyahoga Falls
 James Edward Maurer, Columbus
 Thomas Francis Mullen, Warren
 Joseph Charles Pierson, Broadview Heights
 Albert Harold Wessbecher, Brecksville
 Timothy Charles Williams, Granville
 Terry Gerard Zavilla, Chicora, PA

Bachelor of Science in Ceramic Engineering

Charles Walter Alt, Marietta
 David Lawrence Boback, Cincinnati
 Janine Luise Braun, Beavercreek
 Stephen David Chericco, Clarion, PA
 Louis John Colarusso, Solon
 Joey Michael Corpus, Columbus
 Robert Colonel Dillmore, Wadsworth
 Donna Sue Finke, Dublin
 Scott Davis Furlong, Mt. Prospect, IL
 Rhonda Lou Gatzke, Circleville
 James Morgan Gray, Chesterland
 Joseph Arthur Heisler, Jr., Orient
 Mark Allen Taylor, North Olmsted
 Amy Monica Trapp, Gahanna

Bachelor of Science in Chemical Engineering

Talivaldis Viesturs Berzins, Dublin
 David Adam Boerner, Columbus
 John Andrew Bohlmann, Columbus
 Annette Laraine Brough, Newark
 Jonathan J. Calderas, Warren
 Julia Marie Courts, Monroe
 David Earl Davis, Toledo
 Eric Scott DelliGatti, Gahanna
 Cathy Ann Finafrock, Bellbrook
 Josef Anton Franz, West Salem
 Paula Rene Fulk, Bellevue
 Mary Alison Grady, Newark
 Mark Richard Kinkelaar, Dublin
 Steven Ronald Lang, Westlake
 David Wayne Miller, Grove City
 Dianne Marie Monnin, Fairfield
 Heidi Mae Oesch, Shelby
 Kimberly Lynn Oney, Londonderry
 David J. Parker, Newark
 Todd Kevin Pencarinha, Grove City
 Amy E. Schmitt, Uniontown
 Marshall Lee VanDeWalle, Williamson, NY
 Ronald Baylon Villanueva, Parma Heights
 Susanne Terese Woodlan, Painesville

Civil Engineer

Muhammad Tahir, Columbus

Bachelor of Science in Civil Engineering

Tareq Rafiq Abed, Kuwait, Kuwait
 Richard Alan Archer, Columbus
 Susan Kay Brittain Banbury, Worthington
 Raymond G. Beer, Columbus
 Mark Beiloni, Brewster
 Jeffrey Allen Blair, St. Clairsville
 William Coleman Blank, Columbus
 Mark Joseph Bonifas, Columbus
 Theodore Anthony Brown, Huntington, WV
 Gregory Charles Butcher, Sandusky
 Kenneth Paul Celec, Arlington, VA
 Christopher Robert Clevely, Narvon, PA
 Todd Matthew Day, Reynoldsburg
 Warren Mark Dowling, Angola, NY
 Russell Eugene Etheridge, Jr., West Chester
 Mark Samuel Evans, Cleveland Heights
 Bryan Carl Foos, Fremont
 Valerie Jean Frank, Murrysville, PA
 Edward Joseph Gebhart, Newark
 Louis Raymond Gibb, Columbus
 Kevin Joseph Grathwol, Sandusky
 Miles Frederick Hebert, Caribou, ME
 Benjamin Henry, Columbus
 John Matthew Hodapp, Dayton
 Ethan Tyler James, Celina
 Ibrahim Farid Kandalaf, Damascus, Syria
 Scott Andrew Kerber, Sidney
 Riadh Koubaa, Sfax-Gafsa, Tunisia
 Jeffrey Ray Larkin, Cincinnati

Mark Douglas Laymon, Columbus
 Matthew Brian Letson, Sylvania
 Shu Yin Lim, Tawau, Sabah, Malaysia
 Chin Wah Low, Kuala Lumpur, Malaysia
 Rosnani Maarof, Melaka, Malaysia
 Russell Eldon Mapel, Coshocton
 Cynthia Ann Martindale, Reynoldsburg
 James Edward McGrath, Hudson
 Kok Seng Ngui, Kuala Kubu Bharu, Malaysia
 Keith Frank Papay, Amherst
 Teresa Ann Petrick, Columbus
 Craig Steven Riedel, Attica
 William Corcoran Roach, Columbus
 Sandra Rudd, Akron
 Salah Kayed Said, Beirut, Lebanon
 Timothy J. Savercool, Apalachin, NY
 Daniel William Schoster, Cincinnati
 Teck Chye Seah, Klang, Malaysia
 Jack D. Wallick, Columbus

Bachelor of Science in Computer and Information Science

Elias Adib Abboud, Beirut, Lebanon
 Bendedra Evelyn Allen, Columbus
 Jusuf Anwar, Bandung, Indonesia
 Jae Min Bae, Columbus
 Nanthini Balakrishnan, Colombo, Sri Lanka
 James Gerard Bednar, Youngstown
 Garry Lee Brannon, Centerville
 Mark Patrick Brucoli, Canfield
 Moez Chaabouni, Sfax, Tunisia
 Bruce Edward Chapa, Columbus
 Thomas Albert Daniels, Brecksville
 Forrest Todd Doan, Lithopolis
 David Allen Dues, St. Marys
 Eric Dean Dulaney, Willoughby Hills
 David Alan Eaton, Galena
 Howard James Eberhart, Brunswick
 Jonathan Ross Fausey, Columbus
 Bedwan Issa Gammoh, Amman, Jordan
 David Allen Greer, Mansfield
 Bruce Edward Griffin, Columbiana
 Jack Wade Griffith, Lima
 James M. Grywalski, Summerfield
 Roger Grywalski, Byesville
 Pankaj Gupta, New Delhi, India
 Jennifer Ann Havens, Worthington
 Mahmood Karbasi-Amel, Esfahan, Iran
 Steven Daniel Kirner, Sandusky
 Mark Allan Koenig, Strongsville
 Timothy Jon Krieg, Columbus
 Wen-Min Lee Kuan, Nantour, Taiwan, R.O.C.
 Nicola Labate, Fairview Park
 Catherine Clara Lander, Kettering
 Robert Joseph Leugers, Cincinnati
 Pui-Hung Roderick Leung, Hong Kong
 Gary Ernest March, Parma
 Victor Linn Mollett, Laurelville
 Stephanie Ruth Morris, Cleveland Heights
 Candice Lynn Music, Marion
 Yeong-Cheol Oh, Seoul, Korea
 Tanya Sofia Pittel, Columbus
 Branson Reed Rutherford II, Carroll

Elaine Mae Sabio, Gates Mills
Robert Wayne Schott, Marietta
Scott Raymond Seely, Poland
John Ebin Simpson, Jr., New Boston
Douglas Scot Slattery, Batavia
Kevin Dennis Sorg, Findlay
Chin Koon Tan, Penang, Malaysia
James Richard Vaigl, Jr., Galloway
Daniel Brian Waylonis, Columbus
Grace H.P. Wen, New York, NY
Ka Cheong Yu, Columbus

Electrical Engineer

Masoud Rafiee, Dublin

Bachelor of Science in Electrical Engineering

Kenneth Christopher Adkins, West Chester
Saul Eugene Allen, Jr., Lima
Eric Clement Aronson, Bay Village
Paul Calvin Austin, Columbus
Deepak Kumar Bhatia, West Chester
Nabeel Bitar, Damascus, Syria
James Anthony Bizily, Eastlake
Michael Joseph Bloom, Louisville, KY
Mark Eugene Bosh, Marion
Robert David Bower, Jr., Galena
Nancy Lee Brower, Monroe
Craig Robert Brown, Elyria
Jeffrey John Bruns, East Stroudsburg, PA
Kastro Budiman, Jakarta, Indonesia
Daniel Joseph Butzer, Pickerington
David Edwin Champagne, Kettering
Pak-Kin Andrew Chau, Toronto, Canada
William Yu-Wei Chen, Columbus
Donald Scott Coffey, Avon Lake
Ben Burris Creighton, Columbus
John Fredrick Crooks, Medina
Theodore Charles Davis, Toledo
Daniel Louis DeCarlo, Fairborn
Steven John Decker, Worthington
Inderpal Singh Dhillon, Cleveland
Ann Christine Douglas, Pleasant City
Michael Allen Ecker, Fostoria
Thomas George Edwards, Xenia
Scott William Eggleston, Chesterland
Thomas Erich Eisenlof, Mansfield
Ralph Lane Ely, Elyria
Raymond Francis Emmett, Mt. Blanchard
Donald Anthony Fatica, Mayfield Heights
Robert Eric Finicle, Bay Village
Scott William Fisher, Worthington
Amanda Susan Francus, Watertown, NY
Mark Alan Gerding, Kalida
Mohamad Hussein Ghie, Tripoli, Lebanon
Samuel Kelley Hammel, Pataskala
Kourosh Harandi, Tehran, Iran
Kent Evan Helfrich, Youngstown
Jeffrey Charles Henley, Bay Village
Carole Lee Hindman, Strongsville
Marcie Lynne Hodory, Cincinnati
Daniel Bruce Holton, Elyria
Catherine Marie Hopkins, Beavercreek
Morgan Eliot Jackson, Lancaster

Jeffrey Edward Janosek, Northfield
James Bradley Jenkins, San Antonio, TX
Romer Daniel Johnson, Orem, UT
Shahid Maqbool Kabli, Lahore, Pakistan
James John Klocinski, Toledo
John Paul Kralik, Columbus
Kevin Michael Kushmaul, Columbus
Mark Brian Lansman, Dayton
Robin David Latham, Fairfield
Kim Owen Leimbach, Lima
James Michael Light, Greenville
Nien Fang Lin, Taipei, Taiwan, R.O.C.
Jack Chee Sheng Loh, Singapore
Randall Joseph Majerczak, Seven Hills
Stephen John McCracken, Worthington
Michael Patrick McManus, Cincinnati
Sukumar D. Menon, Chardon
David Robert Meyer, Lima
Renée Louise Miller, Batavia
Daniel John Morelli, Warren
Dennis Anthony Mullahy, Findlay
Claudia Elisabeth Muller, San Antonio, TX
Steven Wayne Myers, South Charleston
Koji Nagai, Gahanna
Timothy Alan Nissen, Curtice
James Joseph Norton, Cleveland
Michael Patrick O'Hara, Akron
Karen Elizabeth Peters, Columbus
Scott Edward Peters, Tallmadge
David Charles Petrick, Cincinnati
Brian Alan Porter, Elyria
James Christopher Raeburn, Akron
Hafedh Rahali, Tunis, Tunisia
Carey Norman Rakich, North Canton
Alejandro Julio Recabarren, Argentina
David Michael Rhoad, Norwalk
Rami Michel Saba, Damascus, Syria
David Steven Sarisky, Youngstown
Suzanne Elizabeth Savage, Blanchester
Peter Thomas Schimmoeller, Ottawa
Mark Paul Schnaible, Warren
Steven Eric Schubach, Columbus
Troy Allan Seman, Strongsville
Patricia Ellen Shine, Warren
Edward Brian Shrock, Westerville
Scott Joseph Slater, Maple Heights
Jeffrey Warren Smith, Columbus
Raymond Michael Spoutz, Huber Heights
Alan Eugene Steinke, Wapakoneta
Stacey Ann Stipkovich, North Canton
Stephen Michael Strom, North Olmsted
Mark Anthony Thomas, Eastlake
Clifton Todd Valley, Columbus
Natalie Ann Wakulich, Shadyside
Mark Frederick Wolff, Niceville, FL
David Brian Zehala, Galena

Bachelor of Science in Engineering Physics

Thomas Andrew Bott, Columbus
James Edward Diederich, Painesville
James Michael Lee, Rossford
Ann Marie Mescher, Anna
Keith Allen Najmowski, Columbus
Hung Huu Nguyen, Columbus

Humberto Nawer Nunes, Curaçao, Netherlands Antilles
Genaro Perez, La Paz, Bolivia
Eric Robert Ulm, North Canton
Thomas Michael Weiland, Bellevue

Bachelor of Science in Industrial and Systems Engineering

Darin Corbin Beach, Cincinnati
Erik Lee Bertelsen, Chesterfield
Michael William Bush, Pickerington
John Joseph Clifford, Columbus
James David Coup, Westlake
Charles Glenn Covert, Columbus
Biron Scott Crusenberry, Dayton
James Francis Curran, Enterprise, AL
Teresa Mae Dombkowski, Oregon
Kathryn Ann Dues, Minster
Michael Timothy Elter, Columbus
Sue Ann Ferguson, Mt. Vernon
Todd Brian Fisher, Pickerington
Michael Joseph Gaber, Columbus
David George Hochman, Columbus
Monica Diane Hudek, Warren
Devon Prester Johnson, Lakewood
Pamela Lynn Jones, North Canton
Poh-Yian Koh, Singapore
John Edmund Koleszar, Woodbridge, VA
Nancy Suzanne Kovach, Avon Lake
Michele Inge Kriegelstein, Cincinnati
Gregory Dane Lynd, Annandale, VA
Christopher Stoli Mahne, Painesville
Michael Thomas Malone, Cincinnati
Phillip James Marn, Dayton
Raquel Maria Maymir, Cincinnati
Julianne Meder, Phoenix, AZ
Thomas Lee Michalski, Mansfield
Scott Lee Miller, Huber Heights
Leonard Edward Murphy, Lorain
Timothy Alan Murphy, Xenia
Michael Edward Nagy, Westlake
Bradley Kenneth Ness, Circleville
Leslie Rae Orvos, Uniontown
Ronny Michael Paelicke, Solon
Parimal Bachubhai Patel, Mentor
Aaron H. Peery, Worthington
Jeffrey Alan Peterson, Cincinnati
Kathy Ann Prazer, North Canton
Steven Lawrence Seldowitz, Rochester, NY
Dennis Joe Shank, Attica
John Edward Spatak, Warren
R. Todd Strickland, Bucyrus
Susan Coryn Summers, McConnellsville
John Pfeiffer Sweeney, Lima
David Michael Tersigni, Greensburg
Carol Lyn Trierweiler, Wooster
Patrick Gerard Urwin, Independence
Carolyn Yun-Ching Wang, Worthington
John Paul Weigman, Avon
Mark Edward Wenzel, Mentor
James Earl Williams, Dayton
Robert Fred Zahn, Mansfield
Renée Marie Zelis, Strongsville

Bachelor of Science in Mechanical Engineering

John Brooks Alford, Minford
Timothy Darryl Angell, Uniontown
Steven Michael Auvil, East Sparta
Frank Adam Barthorst, Fort Loramie
Scott Zerkle Barnes, Paulding
Patrick Brian Baumle, Payne
Steven Alan Borrer, Columbus
Kyle Edward Broeker, Toledo
James Kenneth Brown, Coshocton
Ernest Ford Caldwell II, Marietta
Mark Ralph Carifa, Columbus
Paul Joseph DeChant, Avon
Andrew J. Eckler, Sardis
John Timothy Foreman, Blacksburg, VA
William John Fosnight, Akron
Daniel Patrick Fradl, Dayton
Kenneth Thomas Fricker, Powell
Karen Marlene Geil, Vermilion
Geoffrey Lawrence Gordon, Olmsted Falls
Martin Joseph Hindel, North Olmsted
Thomas Eaton Hunt, Cincinnati
Dung Tien Huynh, Dayton
Donald Dean Johnson, Reynoldsburg
Thomas Ray Johnson, Pickerington
Charles Gerard Kemper, Coldwater
Frederick Gordon King, Akron
Paul Robert Kula, Columbus
Kenneth Austin Lantz, Wayne, PA
Keith Harold Leimbach, Norwalk
Matthew Jon Lis, North Olmsted
Eugene Yu-Jen Liu, Worthington
Edward David Malone, Worthington
Anthony Wayne McCleery, Columbus
James Lawrence McGarvey, Dayton
David John McNally, Lower Burrell, PA
John Wood Munro, Bay Village
Cynthia Ann Murray, Kenton
George Nick Nicoloulas, Athens, Greece
Clay Logan Niemeyer, Toledo
Julie Ann Olberding, Cincinnati
James Francis Patton, Columbus
Donald Kenneth Perry, Cincinnati
Scott Frederick Popelar, Worthington
Jeffrey Michael Pratt, Wooster
Michael Eugene Purcell, Cridersville
Michael Stephen Rinn, Centerville
Robert Steven Shea, Newark
Steven Edward Shekut, Westlake
Charles H. Simmons, Jr., Huntington, NY
James Louis Tarolli, Rocky River
David Thomas Tyler, Columbus
Lawrence Leo Vietmeier, Lisbon
Colin Todd Williams, Amelia
Dale L Wynkoop, Findlay

Bachelor of Science in Metallurgical Engineering

Joyce Elizabeth Braun, Beavercreek
Jane Marie Brown, Columbus
Toni Margaret DiGeronimo, Worthington
Joseph Anthony Eramo, Columbus
Robert Walter Gairing, Wadsworth
Elizabeth Anne Kercsmar, Middletown
John Carl Kujanek, Berea

Richard James Morris, Wheaton, IL
Christine Marie Rankin, Uniontown
Dale Scott Reed, Fairfield
Timothy Lee Schorr, LaRue
David Alan Shepard, Middletown
John James Socrates, Cincinnati
Glenn Michael Steed, Napoleon
Roger Cheong-Ling Tai, Hong Kong

Bachelor of Science in Surveying

Michael Lewis Keller, Willard
Chee Wan Ong, Tangkak, Malaysia

Bachelor of Science in Welding Engineering

David Henry Abbott, Upper Arlington
Robert Joseph Abfall, Orwell
Bart Lawrence Anthony, Wapakoneta
Anthony Steven Antinone, Mingo Junction
Daniel Eugene Applegate, Columbus
Alain Serge Artayet, Oswego, NY
John Paul Bechie, Jr., Chillicothe
Victor Thomas Bell, Columbus
Thomas John Bruno, Carbondale, PA
Douglas Eric Carter, Thornville
Kapyoung Choi, Hubbard
Patrick Timothy Collins, Bedford
Mark Edward Emerine, Fostoria
Brian Thomas Finnigan, Indianapolis, IN
Paul Anthony Fortunato, Mentor
David Lawrence Gantt, Jr., Kettering
Mark Steven Goodman, Mayfield Heights
John Frank Guzzo, Columbus
Todd William Hiltibran, West Liberty
Aaron Andrew Hoilander, Highland Park, IL
Robert Carl Hovan, Strongsville
Richard Stephen Iannetti, Reading, MA
Alexander Jae-Kyung Kahng, Dublin
Robert Mathew Kistler, Clyde
Andrew James Kottenstette, Columbus
James Brian Krieger, Toledo
Jeffrey Scott Kuchta, Cleveland
Craig Alan Leffel, New Knoxville
Michael Scott Lockhart, Columbus
Tikna Goenawan Lukita, Jakarta, Indonesia
Oswaldo Enrique Machado, Maracaibo, Venezuela
Brian Patrick McEntee, Upper Arlington
Timothy Brian McKee, Whitehall
Hector Kurt Menke, Springfield
Gene Thomas Merryman, Columbus
Daniel Joseph Moniak, Brecksville
Meryl Edgbert Newton, Cleveland
George Andrew Oschip, Cleveland
Byoung Soo Ou, Worthington
Richard Edward Pietron, Cleveland
John William Robbins, Niles
David Andrew Roberts, Columbus
William Jay Ryan, Columbus
Keith David Savastano, Canton

Sassan Shademan, Columbus
Timothy Vernon Stotler, Newark
Kenneth Edward Wise, Jr., Delta

School of Architecture

Bachelor of Science in Architecture

Nor Haizan Abdul Hamid, Kuala Lumpur, Malaysia
Adetoro Oluwasola Aladesuyi, Lagos, Nigeria
Michael Edward Auferderheide, Worthington
Stuart Werner Baur, Coral Gables, FL
Nelson Louis Behr, Wapakoneta
Philippe Maurice Bourizk, Al-Shweir, Lebanon
Chong Chuan Chuah, Alor Setar, Malaysia
James Lloyd Daman, Pemberville
Ronald Dinardo, Novelty
Donald Joseph Dispenza, Youngstown
Virginia Leigh Dufrey, Columbus
Joanne Lynn Gammes, Fox River Grove, IL
Thomas John Gerken, Columbus
Gary Lee Green, Lima
Mark Wesley Haines, Kettering
Mark David Headlee, Powell
Bradley Craig Horst, Orrville
Edward Thomas Howard, Huntington, WV
Paul Andrew Huck, Marietta
Robert Gordon Johnson, Massillon
Tala Johnson, Findlay
David Lytle Joliff, Columbus
Patrick Thomas Kelly, Roseville
John Kenton Lund, Reading
Michael Herbert Lutsch, Jr., Salem
Richard P. Makley, Columbus
Kristin Elaine Mingus, Athens
George Paul Nameth, Cortland
Edward Joseph Odziemski, Garfield Heights
Todd Richard Palechek, Hamilton
Daniel Thomas Pardi, Columbus
Petar Perisic, Rocky River
Leslie Anne Pomeroy, Toledo
Thomas John Popoff, Marion
David Carlyle Prater, Stuttgart, AR
Goelz Hanz Prawira, Balikpapan, Indonesia
Kent Eugene Purk, West Unity
Christopher John Redecke, Bethesda, MD
Robin Jeffrey Savage, Cincinnati
James Michael Schmidt, Mansfield
Cathy Lynn Schneider, London
Lori Ann Seeger, Columbus
Mario Serraglio, Whitehall
Paul Ernest Sherwood, Huber Heights
Matthew Evans Simon, Canton
Frank Stephen Ternasky, Columbus
Son Quoc Tran, Columbus
Daniel William Umbach, Wooster
Christopher James Vallette, Ashville

John Russell Van Doren, Forest Park
Michael George Ventouras, Miami, FL
Craig M. White, Columbus
Jerry Lee Winget, Marion
Ronald Eugene Zinn, Chiayi,
Taiwan, R.O.C.

Bachelor of Science in Landscape Architecture

Maria Helen Altenburger, Lima
Eric Joseph Anspach, Columbus
Shannon Leigh Bailey, Plain City
Jacqueline May Bottle, Columbus
Patrick Jeffrey Cloonan, Kirtland
David James Cunningham, New Concord
Roy Edward Davies, Jr., West Chester
Alan Lee Davis, Columbus
David Alan Elder, Youngstown
Shira Kay Evans, Columbus
Mary Katherine Florence, Columbus
Rodney David Fritz, Lexington
Diane Ruth Glimcher, Columbus
Margaret S. Grannis, Columbus
John Lee Grundey, Pickerington
Matthew William Hall, Columbus
Kent Andrew Henschen, New Bremen
Randall Charles Hunt, Fredericktown
James H. Kaiser, Jr., Newark
Pei Lih Lee, Singapore
James Alfred Lesti, Parma
Brian J. Mahoney, Mastic, Long
Island, NY
Edward Lynn Melvin, Springfield
Leisha Mae Mueller, Mansfield
Paul Andrew Neundorfer, Chardon
Kathleen Virginia Pendery, Cincinnati
Mary Margaret Pendery, Cincinnati
William Mark Rifas, Miami, FL
John Robert Sambuco, Martins Ferry
Todd Arnold Shallenberger, Cortland
Michelle Elaine Shroge, Middleburg
Heights
Jeffrey K. Simpson, Sylvania
Daniel James Winner, Celina

College of Home Economics

Dean: Lena Bailey

Bachelor of Science in Home Economics

Lori Rae Anderson, Columbus
Louise Patricia Anderson, Maumee
Rhonda Marie Ashbrook, Kettering
Maria Lynn Bajec, Willoughby
Patricia Marie Banas, Seven Hills
Lisa Andrea Bez, Southfield, MI
Sheryl Lea Bombei, Solon
Katherine Ann Bonacci, Rocky River
Cheryl Ann Borton, Columbus
Toni Lea Boyle, Columbus
Heather J. Breese, Columbus
Connie Sue Brueggemeier, Bowling Green

Brenda Sue Cain, West Lafayette
Sherry Ann Calhoun, Massillon
Celeste Celene Canteri, Willowick
Lisa Ann Cherry, Oregon
Elizabeth Ann Cherwinski, Worthington
Pamela Marie Cicek, Highland Heights
Jill Marie Danko, Akron
Teresa Kay Davis, Cincinnati
Jeff Dettorre, Lorain
Becky Lynn Dickson, Forest
Marcia Marie DiRuzza, Canton
Andrea Monique Dixon, Whitehall
William John Donnelly, Wellington
Amy Lynn Dues, St. Marys
Lisa Anne Edheimer, Pepper Pike
Patricia Ann Elchert, Tiffin
Susan Lane Fink, Gahanna
Mary Catherine Fisher, Hillsboro
Hallie Lynne Friedman, Mayfield Heights
Janet Marie Friedmann, Fairborn
Mitzi Jo Fry, Chillicothe
Rebecca Eleanor Fry, Findlay
David Bryan Gates, Columbus
Melanie Meredith Gaulke, Columbus
Donna Lynne Geitz, Orange Village
Susan Lee Glenn, Columbus
Eileen Marie Haller, Rocky River
Linda Marie Harrah, Sylvania
Donna Lee Harrass, Columbus
Faith Eileen Hart, Belmont
Lisa Holly Hays, Worthington
Amy Kay Henderlong, Plain City
William Oliver Henry, Columbus
Laura Jane Hester, Norwalk
Marcy E. Heyman, Bexley
Anita Marie Hines, Orient
Beth Gina Hochberg, Cincinnati
Ann Margaret Holben, Westerville
Joellen Kathryn Hoppes, Worthington
Margie Ann Hriesik, Mansfield
Annie Juanita Hsu, Columbus
Ruth Anne Inglis-Hirsch, Columbus
JoEllen Laurene Jannot, Mt. Vernon
Yvonne Evdokia Kalucis, Middleburg
Heights

Amy Louise Kidder, Arlington, TX
Deborah Lynn Koester, Centerville
Elizabeth Jane Kreider, Granville
Jane Elizabeth Krill, Edgerton
Christen Jean Lackey, Marion
Julie Ann Landholt, Columbus
Jan Marie Lukac, Port Clinton
Juliana Kay Lutz, Greenville
Robin Marie Mainous, Toledo
Ann Marie Marchese, Columbus
Kathleen Grace Maxwell, Westerville
Lee Adair McCarty, Plain City
Amy McCracken, Cincinnati
Maria Ann McKinley, Westerville
Brenda Alese Merriner, Uniontown
Pamela Lynn Merry, Columbus
Molly Anne Miller, Willoughby
Jeannine Monica Murray, Marietta, GA
Rebecca Lynn Nickles, Columbus
Lisa Renee Oxender, West Unity
Kelly Sue Parlett, Columbus
Joyce Marie Pleiman, Sidney
Jill Joanne Poppe, Columbus
Susan Marie Poppe, Columbus

Jeffrey L. Redmond, Loveland
Delford J. Rees, Columbus
Terri Elizabeth Ribet, Marion
Richard Joseph Rinella, Akron
Mary Elizabeth Robison, Peebles
Cheryl Ann Roepke, Maumee
Anne Elizabeth Sawicki, Toledo
Julie Ann Schlossberg, Columbus
Sumit Kumar Sethi, Bangkok, Thailand
Melissa Dianne Simmons, Barberton
Jenifer Arlene Simons, Marietta
Anthony Edward Skerski, Columbus
Sandra Sue Smith, Monroeville
Sheryl Ann Steahly, Zanesville
Sandra Kay Streecker, Tiffin
Anne Kathryn Stuller, Worthington
Laura Lee Sutton, Wapakoneta
Kristin Kay Thompson, Columbus
Melinda Ann Tran, Columbus
Kristin Joy Uhl, Columbus
Renee Ellen Walter, South Euclid
Cynthia Marie Watson, Columbus
Jamie Lynn Watson, Columbus
Theresa Lee Whitston, Galion
Cathy Ann Williams, Columbus
Jodi Lynn Young, Dayton
Alyssa Zimelman, Cincinnati
Judith Anne Zubic, Streetsboro

Bachelor of Science in Hospitality Management

Nancy Gibson Auger, Dublin
Diane Marie Bogner, North Ridgeville
Robert Louis Cartwright, Columbus
Joseph Eugene Christie, Amsterdam
Rosa Maria Del Rio Pineda, Rio
Piedras, PR
Richard J. Gaderick, Dublin
Nancy Ann Hartory, Chardon
Todd William Justus, Cuyahoga Falls
Drew David Lobdell, Columbus
Martha Jean Plyter, Clyde, NY
James Morgan Reese, Blacklick
Jennifer Jo Sparma, Columbus
Eric John Stenta, Shaker Heights
Kristi Lee Tsaropoulos, Rochester, MN
Carolyn Margaret Verga, Avon Lake
Debra Ann Weir, Orrville
Christina Diane Wells, Akron

Bachelor of Science in Nutrition

David Reuel Navorska, Ashland
Eric Jay Oglesbee, Kettering

College of Law

Dean: Francis X. Beytagh

Juris Doctor

Frank James Agin, Chassell, MI
B.A. (Beloit College)

Peter James Albert, Independence
B.A. in Bus. Adm. (Bowling Green State
University)

Alan Dawson Alford, Novelty
B.S.

Ronda Sue Anderson, East Sparta
B.A. (Walsh College)

John Todd Arkebauer, Sylvania
A.B. (University of Michigan)

G. Randall Ayers, Newcase, IN
B.A. (Earlham College)

Dan Evan Bellville, Delaware
B.S. (Bowling Green State University)

Alicia Jean Bentley, North Lima
B.A. (University of Michigan)

Judith Ann Berman, Columbus
B.A.

Jeffrey Arlen Blake, Gahanna
B.A.

Bernadette J. Bollas, Columbus
B.A. (University of Notre Dame)

Debra A. Braddy, Miami, FL
B.S. (Central State University)

John Joseph Brennan, Toledo
B.A. (Miami University)

Vincent C. Brockman, Granville
B.A. (Miami University)

Robert Frederic Brown, Sandusky
B.S. (Miami University)

Joseph Dominic Buckley, Cleveland
B.A. (College of Wooster)

Donald Eric Burton, Defiance
B.A. (University of Toledo)

Robert Joseph Byrne, Eaton
A.B. (San Diego State University)

Jay Bernard Carter, Dayton
A.B. (Stanford University)

Anthony Joseph Caruso, Cincinnati
B.A. (University of Cincinnati)

Theodore F. Claypoole, Dayton

B.A. (Duke University)

Charles M. Coate, Columbus
B.S. (Miami University)

Zoe Allison Cohen, Charleston, WV
B.A. (Marshall University)

David Cooper Comstock, Jr., Youngstown
B.A. (The College of Wooster)

James William Conway, Norwalk
B.A. (University of Toledo)

Lisa Jo Cook, San Marino, CA
B.A. (University of California-Santa
Barbara)

Monette Wynn Cope, Columbus
B.A.

John Thomas Corrigan, Holyoke, MA
B.A. (Ohio Dominican College)

Timothy E. Cowans, Columbus
B.A. (Ohio Dominican College)

William Ray Damschroder, Gibsonburg
B.B.A. (Ohio University)

Dale Lloyd Dennie, Ann Arbor, MI
B.A. (Calvin College)

Phillip Francis Downey, Trenton, NJ
B.A. (Rutgers College)

Thomas Francis Doyon, Worthington
B.A.

Nathan Anthony Durst, Westerville
B.A. (Rice University)

Amy Lynn Earl, Columbus
B.A. (Georgetown University)

Kevin Francis Eichner, Dayton
B.S. (Miami University)

David Alan Eide, Elmhurst, IL
B.A. (University of Chicago)

Wendell Craig Eldridge, Willard
B.A. (John Carroll University)

Joan Marie Englund, Norton A.F.B., CA
B.S.

Mary Patricia Ennis, Columbus
B.A. (Kenyon College)

Ann Eileen Fallon, Cleveland
B.S. (Kent State University)

Robert Dale Fein, Girard
B.S.Bus.Adms.

Therese Susan Felix, Cincinnati
B.B.A. (University of Cincinnati)

Susan Leonard Fenderson, Rocky River
B.A. (The College of Wooster)

Mark Francis Fischer, Massillon
B.B.A. (University of Notre Dame)

Paul Harrison Fisher, Cincinnati
B.S. (Miami University)

Mark Ross Fortunato, Poland
B.A.

Anthony Luciano Foti, Lyndhurst
B.S.Bus.Adms.

William Edward Frank, Jr., Massillon
B.A.

Wendie Melise Freeman, Coshocton
B.A. (Northwestern University)

Judith L. French-Berry, Sebring
B.A.

Michael E. Furry, Columbus
B.S.

Grant Bennett Garverick, Galion
B.A.

Gregory A. Gehlmann, Lorain
B.A. (University of Dayton)

Danita Ann Gilbert, Coshocton
B.S.

Anthony Joseph Giuliani, Columbus
B.A.

Michael Jay Goldberg, Beachwood
B.S. (University of Cincinnati)

Lewis Howard Goldfarb, Columbus
B.S.

Rebecca Mills Green, Huntington, IN
B.S. (Hanover College)

Julie A. Grosjean, Wooster
B.A. (Allegheny College)

Daniel Robert Hackett, Springfield
B.B.A. (University of Notre Dame)

Stephanie Lynn Hager, Columbus
B.A. (Vanderbilt University)

Raleigh Ann Hahn, Akron
B.A.

Seth Robert Halpern, Beachwood
B.A. (Northwestern University)

Glenn Paul Hanzlick, Garfield
B.B.A. (University of Notre Dame)

Julia Ann Harden, Cincinnati
B.S. (Miami University)

Deborah Lynn Harp, Oxford B.A. (Miami University)	Scott Cameron Kirschman, Huron B.S. (Ohio University)	Donald L. Miller, South Euclid B.A. (Bowling Green State University)
Timothy Scott Harris, Toledo B.A. (University of Toledo)	Paul A. Klein, Evanston, IL A.B. (University of Illinois at Urbana- Champaign)	Paul David Morehart, Baltimore B.A.
Robert G. Hartmann, Bexley B.A.	Gary John Kocher, Columbus B.A. (Miami University)	Wesley Otto Mueller, Mansfield B.S. (University of Cincinnati)
Michael Edward Hatch, Findlay B.A. (John Carroll University)	Peter C. Kratoski, Tallmadge B.A.	Craig Raymond Farley Murphey, Fairview, PA B.A. (University of Pittsburgh)
Amy Bettina Haynes, Columbus B.S.	David Anthony Kulwicki, Toledo B.A. (University of Texas-Austin)	Susan Jeralyn Murray, Columbus B.A.
Ronald Michael Haystead, Dearborn, MI A.B. (University of Michigan-Dearborn)	Marshall Gary Lachman, Northbrook, IL B.S. (University of Illinois at Urbana- Champaign)	Paul Mansfield Nalepka, Hudson B.B.A. (Kent State University)
Jeffrey James Helmick, Toledo A.B. (The University of Michigan)	Robert Michael Laubert, Massillon B.A.	Marianne Neal, Worthington B.A.
Karen Lyn Henry, Westerville B.A. (Connecticut College)	Thomas Earl Lenhart, Findlay B.S.	Nancy Ann Novak, Lancaster B.A. (Miami University)
Jan Elizabeth Hensel, Columbus B.A.	Thomas N. Littman, Akron B.S. in Business (Miami University)	S. Diane Nutter, Columbus B.S.Bus.Adm.
Susan Lenton Hering, Tiffin B.A. (Denison University)	James Allen Loeb, Shaker Heights B.A.	Charles Edward Ohlin, Warren B.A. (Kent State University)
Donna J. Hichman, Gastonia, NC B.A. (Wittenberg University)	Laurie Susan Longo, Columbus B.A.	Emmanuel I. Okonkwo, Enugu, Anambra- State, Nigeria B.S. (Norfolk State College)
Gregory Allen Hickman, Chicago, IL B.S. (Indiana University)	Glenn Michael Loos, Lexington B.A. (Kent State University)	Jacqueline M. Orlando, Columbus B.A. (Youngstown State University)
Sharon Anne Hicks, Shaker Heights B.A.	George H. Lovett, Delaware B.A. (Miami University)	Myles Anthony Owens, Columbus B.A.
Eugene Latimer Hollins, Marietta B.A. (Vanderbilt University)	Jeffrey Keith Lurie, Beachwood B.A. (Miami University)	Antonio Belmonte Paat, Jr., Maumee B.S.Bus.Adm.
Elizabeth Ann Howell, Marietta B.A. (Ohio University)	Robert John Mann, Chardon B.A. (Miami University)	Jorge Alberto Pena, Charleston, WV B.S.J. (West Virginia University)
Charles R. Hubbard III, Nelsonville B.A. (Denison University)	Christopher M. Marinko, Mentor B.A.	Brian Vincent Pero, Boardman B.S. (Miami University)
Vincent Joseph Iuliano, Watertown, MA B.A. (Fairfield University)	Steven Arthur Martin, Colorado Springs, CO B.S. (University of Colorado)	William James Pohlman, Columbus B.A. (Oberlin College)
David Gordon Jennings, Columbus B.A. (Wittenberg University)	John Edward Mauntler, Toledo B.A. (Capital University)	Thomas Joseph Potts, Sidney B.S. (Miami University)
Sheila Irene Kapur, Columbus B.A. (Miami University)	Peter Joseph McCabe, Garfield Heights B.S. (Miami University)	Claire J. Prechtel, Parma B.A. (Capital University)
Brenda J. Keltner, Van Wert B.A. (Ohio Northern University)	Paul William McCartney, Canton B.A. (Kenyon College)	Glen Ray Pritchard, Newark B.A. (Denison University)
Richard Dean Kennedy, Ironton B.A.	Timothy Drew McGaffick, Columbus B.S. (Franklin University)	Diane E. Reynolds, Canal Winchester B.S.Bus.Adm.
Zane Edward Kindley, Hollansburg B.A. (Ohio Northern University)	Paige James McMahon, Stuart, FL B.S.	Kenneth M. Richards, Sharon, PA B.A. (The Pennsylvania State University)
James Armand King, Perrysburg A.B. (The University of Michigan)		James Henry Richey, Alpena, MI

B.A. (Michigan State University)

Daniel Joseph Roberts, Columbus
B.A.

Kirk William Roessler, Chardon
B.A. (Kenyon College)

Evan David Rossio, Columbus
B.A.

Carmin D. Ross Murray, Columbus
B.A.

William C. Ruettinger, Southbury, CT
B.A. (Columbia University)

Christopher Coe Russell, Columbus
B.A. (Kenyon College)

John Scott Saeger, Columbus
B.S. (Miami University)

Stacey Jay Schacter, Highland Park, IL
B.S. (Miami University)

Michael Lee Schipper, Portage, MI
B.A. (Hope College)

Michael David Scully, Dayton
B.S. (Ohio University)

John Christian Segelken, Ashland
B.A. (Miami University)

Mark Peter Seitzinger, Kent
B.A. (Kent State University)

William Leo Sennett III, Middletown
B.A. (Otterbein College)

Katherine R. Shanabrook, Tiffin
B.A. (University of Dayton)

Hattie Devone Shaw, Alexandria, VA
B.S. (Fayetteville State University)

Margaret Louise Simak, Cleveland
Heights
B.A. (Miami University)

Brian Sirower, Twinsburg
B.A. (The College of William and Mary)

Margaret Kay Sitko, Akron
B.A.

Douglas Scott Sladoje, Gahanna
B.S.

James Hamilton Smith, Nelsonville
B.A. (Ohio University)

Scott Andrew Smith, Massillon
B.A. (West Virginia University)

Jeffrey J. Snell, Sagamore Hills
B.S. in Bus Adm, B.A. (Ohio Northern
University)

Cheryl Lynn Snyder, Massillon
B.S. Bus. Adm.

Christopher John Snyder, Grand
Blanc, MI
B.S. (Central Michigan University)

Robert Lee Solomon II, Akron
B.A. (David Lipscomb College)

Mark Madison Southard, West Carrollton
B.S. (Wright State University)

James Charles Spitz, Columbus
B.A.

William Joseph Stavole, Parma Heights
B.A. (Kenyon College)

Marta Ann Stein, Akron
B.A. (University of Michigan)

Eugene Joseph Sterle, Highland Heights
B.A.

Patrick Emmett Sweeney, Columbus
B.A. (University of Notre Dame)

Betsy Ann Swift, Columbus
B.S.

Denise Joy Talebi, Columbus
B.A.

David Michael Thomas, Canton
B.A. (Walsh College)

Matthew J. Thompson, Reynoldsburg
B.A.

William A. Thorman III, Cincinnati
B.A. (Lawrence University)

Thad C. Toothman, Columbus
B.A. (Miami University)

Franklin Henry Top III,
Gaithersburg, MD
B.A. (Kenyon College)

Mary Lenox Topliff, Marion
B.S. (Bowling Green State University)

Robert John Travers, Youngstown
A.B. (Boston College)

Joan Denise Veri, South Charleston
B.A. (Miami University)

Jeffrey P. Vogelgesang, Cincinnati
B.A. (Miami University)

Matthew Joseph Voltolini, Columbus
B.A.

John Thomas Walker, Powell
B.A. (University of North Carolina at
Wilmington)

Michael Henry Walsh, Westlake
B.A. (University of Kentucky)

Lisa A. Weekley, Columbus
B.A. (Marietta College)

Peter Daniel Welin, Columbus
B.S. (Iowa State University of Science &
Technology)

Karen Denise Wheel, Baltimore, MD
B.A. (Denison University)

Wesley W. Whitmyer, Jr., Brecksville
B.A. (Ohio Wesleyan University)

Virginia S. Wilson, Newark
B.S. H.E.

Charles Michael Wise, Columbus
B.A.

David Allen Zagore, Columbus
B.A.

James Edgar Zorn, Palm Bay, FL
B.A. (University of Central Florida)

College of Medicine

Dean: Manuel Tzagournis, M.D.

Doctor of Medicine

Mark Ellis Aebi, Vincent
B.S. (Harding University)

Janet B. Alexander, Copley
B.S.

David Terrence Applegate II, Grosse
Pointe Park, MI
B.S.

Mark Anthony Armeni, Youngstown
B.A. (Hiram College)

Daniel L. Badenhop, Napoleon
B.S. (Defiance College)

Alp Sinan Baran, Columbus
B.S.

Bradford John Barrett, Canfield
B.S. (University of Notre Dame)

Albert Kenneth Bartko, Boca Raton, FL
B.A. (Wright State University)

Kathleen Rickey Bartunek, Springfield
B.S.

Gregg Alan Bauer, Kent
B.A. (Emory University)

Charles Dale Baughman, Carroll
B.S.

Bonnie Jo Bayne, Ann Arbor, MI B.S. (Michigan State University)	Stephen S. Crane, Pepper Pike B.S. (University of Michigan)	Karen Elizabeth George, Mentor B.S. (Bates College)
Mary Ellen Behmer, Lakewood B.S. (Boston College)	Edward James Cupler, Youngstown B.S.	Philip Mark Glencross, Valrico, FL B.A. (Case Western Reserve University)
Greg Russell Bell, Boulder, CO B.S. (College of William and Mary)	Boyd Delanor Curtis, Canton B.S.	Dale Alan Goodman, Mayfield Heights B.S., B.S.
Phyllis L. Bieri, Yellow Springs B.S. (Antioch College)	Valerie Jo Del Medico, Akron B.A. (Case Western Reserve University)	Jeanine Marie Graf, Worthington B.A. (Saint Louis University)
Jane Elizabeth Bistline, Dayton	Thomas James Donnelly, Dayton B.A. (Wesleyan University)	Thomas S. Granchi, Canton B.S. (Syracuse University)
Charles Dana Bond, Akron B.S.	Nancy Eleanor Drescher, Rocky River B.S.	Walter George Griffith, Jr., Akron B.S. (University of Notre Dame)
Joyce Ivy Bonenberger, Cedarville B.A. (Cedarville College)	Paul Henry Dreyfuss, Miami, FL B.S.	Terry Winton Grogg, Mansfield B.S. (University of Cincinnati)
Peter Joseph Bongiovanni, Mayfield Heights B.A. (Miami University)	Peter Holmes Edwards, Columbus B.S., M.Sc.	Joseph Jay Guth, Bellville B.A. (University of Cincinnati)
Kevin Karl Bowman, Elida B.A.	Gregor Kreul Emmert, Jr., Toledo B.A. (Princeton University)	Julie Ann Guthrie, Springboro B.S.
Debra Lynn Boyer, Westerville B.S. (University of Michigan)	Maria Annette Enrione, Cincinnati B.S., M.S.	Craig Allen Hackworth, Rocky River B.A. (Ohio Wesleyan University)
Joseph Michael Bryan, Canfield B.S. (Youngstown State University)	Mary Beth Fenderson, Rocky River B.A. (The College of Wooster)	Charlene Elaine Hafer, Shippensburg, PA B.S. (Pennsylvania State University) M.S. (Case Western Reserve University)
Susan Nathalie Buchanan, Columbus B.S. (Denison University)	Joseph Francis Fiala, Parma B.A. (University of Notre Dame)	Leila Raja Hajjar, Beirut, Lebanon B.S. (American University of Beirut)
William Bruce Bunn, Youngstown B.S. (University of Wisconsin)	Richard Michael Finer, Cincinnati B.S. (University of Cincinnati)	Cecelia Lynn Hamilton, Cleveland B.A. (Harvard University)
Brian Scott Burdo, Waterville B.S.	Mark Thomas Finneran, Muskegon, MI B.S. (John Carroll University)	Maged Fouad Hanna, Bellbrook B.S. (University of Dayton)
Carol Ann Burke, Mayfield Village B.S. (University of Colorado)	Sharon M. Roberts Fitzsimmons, Wadsworth B.S.	Thomas Frederick Harman, Fostoria
Denise Ianora Campagnolo, Bayonne, NJ B.S.	Monica Anne Flynn, Cincinnati B.S. (Xavier University)	Thomas Louis Harmon, Cincinnati B.S. (University of Dayton)
Deborah Ann Campbell, Parma B.M. (University of Cincinnati)	Lowell Arick Forrest, Dublin B.S.	Keith Edward Harrington, Columbus B.S., M.S.
Jean Marie Capella-St. John, Painesville B.S. (Duquesne University)	Orville Ryland Foster, Cleveland B.A. (Case Western Reserve University)	Stefan Hasinski, Fairfield B.A. (University of Cincinnati)
Cynthia Kaye Casamento, Circleville B.S.	Robert Matthew Frank, Euclid B.S. (The University of Michigan)	David McClure Haybron, Chagrin Falls B.S. (Case Western Reserve University) M.S. (University of Hawaii)
Jeffrey B. Casamento, Chesterland B.S.	Janice Aileen Frederick, Fremont B.A. (Miami University)	Matthew James Heider, Toledo B.S. (Kent State University)
Lawrence Edward Clapp, Toledo B.S. (University of Toledo)	Susan Colleen Galbraith, Centerville B.S. (Graceland College)	Kurt William Heintzelman, Canfield B.S. (University of Cincinnati)
Debra Lynn Clark, Canton B.S.	Estella Maria Gallardo, Hamilton B.S. (University of Dayton)	Gregory Scott Hellwarth, Celina B.S.
Leesa Irene Comparin, Lakewood, CO B.S. (Stanford University)	David Spencer George, Marietta B.S.	Harry Douglas Hobson, New Richmond B.A. (Ohio Northern University)

Keith Alan Hollingsworth, Chesterland B.S. (Denison University)	Ronald Frank Maceyko, Campbell B.S. (Youngstown State University)	Charles Jon Nicely, Akron B.S.
Tyler Kauffman Huggins, Galion B.A. (Otterbein College)	Christopher Charles Mand, Dublin B.A. (University of North Carolina)	Timothy Dennis O'Brien, Richmond Heights B.S. (University of Notre Dame)
Amy A. Imm, Ottawa B.S., B.A. (Ohio Northern University)	James Andrew Mandelik, Highland Heights B.A. (Kenyon College)	Jeffrey Curtis Oehler, Highland Park, IL B.S. (Massachusetts Institute of Technology)
Mark Joseph Johnson, Ravenna B.S.	David Patrick Marmaduke, Akron B.S. (De Paul University)	Mary Catherine Oehler, St. Louis, MO B.S. (Massachusetts Institute of Technology)
Amy Stocker Joliff, Wooster B.S.	James Craven Martin, Jr., Salinas, CA B.S. (University of California)	Raymond James Omerza II, Richmond Heights B.S. (Boston College)
Stuart Russel Jones, Jr., Columbus B.A. (Denison University)	Anthony Michael Masaryk, Wadsworth B.S. (The University of Akron)	Alexander Pierce Ormond III, Akron B.S. (Wheaton College)
Richard Lawrence Kalish, Columbus B.A. (Brandeis University): M.S.	Gregory Scott Masimore, Warren B.A. (Hiram College)	Marilynn J. Peters, Westerville B.S. (Baylor University)
Matthew William Karshner, Columbus B.A. (Kenyon College)	John Guy Mastronarde, Campbell B.S. (John Carroll University)	Susan Lynn Pinsky, Toledo B.S. (University of Toledo)
Sheref N. Khalil, Solon B.A. (Case Western Reserve University)	David Douglas McCarther, Dayton B.A. (Columbia University)	David Louis Pollifrone, Youngstown B.A. (Hiram College)
Elizabeth Marie Kiraly, Austintown B.A. (Case Western Reserve University)	Charles Thomas McConnell, Jr., West Chester B.A. (Miami University)	Jane Hildy Pollner, Mt. Lebanon, PA B.A. (University of Michigan)
Ján Edward Klamar, Upper Arlington B.A. (Kenyon College)	Kathleen Louise McDonald, Olmsted Falls B.A. (Denison University)	Thomas Anthony Preston, Cincinnati B.A. (University of Notre Dame)
Wendy Diane Knarr-Schuen, Fleetwood, PA B.S. (Columbia Union College)	Steve Edward McKee, Gallon B.A. (Ohio Northern)	Paul Irvin Pyles, Hamilton B.S. (Xavier University)
Frederick Michael Kohn, Trotwood B.A. (University of Cincinnati)	Daniel Robert McMahon, Rocky River B.S. (University of Cincinnati)	Navdeep Singh Rai, Akron B.S. (University of Akron)
Daniel Jay Leizman, Cleveland Heights B.A. (University of Pennsylvania)	Charles Arthur Milem, South Point B.S.M.E. (University of Cincinnati)	Daniel Eric Ray, Chardon B.A. (Boston College)
Andrew Campbell Leslie, Delaware B.S. (Ohio Wesleyan University)	Brian Keith Miller, Toledo B.A., B.A. (University of Toledo)	Anthony Paul Restuccio, Girard B.S.
Timothy Michael Lestingi, Cincinnati B.A. (Northwestern University)	Ann Trzaska Moell, Centerville B.S. (University of Dayton)	Virginia Ann Rhodes, Solon B.S. (Mount Union College)
Robert Michael Letscher, Cincinnati B.A. (Miami University)	Nancy Carroll Moore, Bryan B.S.	Joseph Reid Ritchie, Fairborn B.S.
David Kennedy Lewis II, Moreland Hills B.A., B.A. (University of Colorado)	J. David Morgan III, Chagrin Falls B.A. (Capital University)	Steven L. Robinson, Westerville B.S.
Melissa Susann Lim, Richfield B.A. (Kent State University)	Ann Marie Morvai, Barberton B.S.	Karl Gerard Louis Rose, Dayton B.S. (University of Dayton)
William Andrew Liss, Hollywood, CA B.A. (University of California)	Bradford Brent Mullin, Gahanna B.A. (Otterbein College)	Jeffrey R. Ross, Cambridge B.A. (Case Western Reserve University)
Joseph Michael Long, Middletown B.S. (Washington University)	Lakshman Singh Negi, Kilba, India B.Sc. (Himachal Agricultural College)	CindyLou F. Rossana, Columbus B.S. (Stockton State College); Ph.D.
Mark Phillip Long, Middleburg Heights B.S.	Kenneth Evan Nekl, Seven Hills B.S. (University of Toledo)	Lynne Ruess, Worthington B.A. (Kenyon College)
Scott Alfred Luking, Huber Heights B.S. (Wright State University)		

Mark S. Rumancik, North Canton
B.A. (Walsh College)

Scott Andrew Russi, Gahanna
B.S. (United States Air Force Academy)

Ralph Christian Samlowski, Columbus
B.A.

Daniel Zev Sands, University Heights
B.Sc. (Brown University)

Philip Harry Santa-Emma, Columbus
B.A.

Gretchen Eloise Schacht, Pittsburgh, PA
B.S.

Roger Matthew Schantz, Sylvania
B.A. (University of Toledo)

Howard Joseph Schertzinger, Jr.,
Tallmadge
B.S. (University of Cincinnati)

Gary Lynn Schroeder, Napoleon
B.A. (Miami University)

Andreas Walter Schuster, Middleburg
Heights
B.A. (Miami University)

Steven Michael Schwartz, Pepper Pike
B.A. (University of Michigan)

Joseph Edward Segeleon, Pittsburgh, PA
B.A. (Wittenberg University)

William Allen Shade, Jr., Gahanna
B.A. (Otterbein College)

Lee Ann Shollenberger, Westlake
B.A. (Miami University)

Elaine Marie Shurilla, Poland
B.A., B.A. (Youngstown State University)

Carolyn Marie Smith, Toledo
B.S. (University of Toledo)

David Ronald Smith, Delaware
B.A. (Carleton College)

Leslie Yvonne Smith, Bellefontaine
B.S. (University of Cincinnati)

Deborah K. Smithberger, Pickerington
B.A. (Capital University)

Robert Snitzer, Campbell
B.S. (University of Notre Dame)

Luette Marie Sobecki, Toledo
B.A. (Miami University)

Nancy Marie Sokany, Parma Heights
B.S. (Xavier University)

Richard Alan Spech, Cleveland
B.S. (Indiana University)

Cynthia Sedor Spicker, Worthington
B.S. (Miami University)

Brian Ray Stahl, Beavercreek
O.D.

Elizabeth Hards Stechschulte, Findlay
B.S. (University of Notre Dame)

Mark Stechschulte, Lima
B.S. (University of Notre Dame)

Nancylee B. Stier, Canton
B.S.

Rebecca Armstrong Stilson, Worthington
B.S. (Duke University)

Gregory Strongosky, Richfield
B.A. (Ohio Wesleyan University)

Nasir Musa Suleiman, Cleveland
B.A. (Case Western Reserve University)

Donald James Sullivan, Akron
B.A. (Miami University)

Lee Shackelford Szykowny, Columbus
B.A. (Williams College)

Eric Michael Tallan, Dayton
B.S.

Michael Wayne Tanksley, Canfield
B.S. (University of Notre Dame)

Thomas L. Teater, Neffs
B.S. (University of Akron)

John Nicholas Teteris, Columbus
B.A. (Miami University)

Anthony Paul Tizzano, Chesterland
B.S. (Slippery Rock State University)

Jeanne Debra Travis, Kings Park, NY
B.A. (Northwestern University)

Thomas Charles Trevorrow,
Ebensburg, PA
B.S.

James Michael Uhlenbrock, Urbana
B.S. (University of Notre Dame)

Elio Ventresca, Columbus
B.A.

Gregory Lee Vignon, New Middleton
B.S. (Youngstown State University)

Michael Hung Vo, Maumee
B.S., B.S. (University of Toledo)

Jean Kennedy Warner, Columbus
B.A.

Karin Margaret Wetzler, Cleveland
Heights
B.S. (Texas A&M University)

Sally Jane Wheeler, Warren
B.A. (Wittenberg University)

James David Wilson, Troy
B.S.

Barbara Alice Wynkoop, Wilmington
B.A. (Boston University)

School of Allied Medical Professions

Bachelor of Science in Allied Health Professions

Sandy Jo Alvarez, Shadyside
Jane Marie Andrews, North Canton
Timothy Lee Arndts, Dayton
Connie Sue Asmus, Bowling Green
Kim Lorraine Bailey, Pickerington
Caroline Marie Barnes, Columbus
Lori Ann Baron, Aurora
Deann Marie Bartos, Fairview Park
Douglas William Beals, Dayton
Marlene Anne Beat, Attica
Julie Ann Beck, Newark
Lorriene Carol Behnke, Painesville
Loree Anne Besch, Marion
Alexander Peter Bezruczko, Fayette
Patricia Lynne Black, West Seneca
Debra Lynn Block, Worthington
Bobbie Jo Blue, Girard
Leanne Clarene Boner, Richwood
Tonya Nanette Boolman, Greenville
Kathleen Annette Borchers, Versailles
Mary Ellen Braidich, Newark
Mark Louis Brett, Ravenna
Wendy Marie Buchanan, Euclid
Carla Irene Buffone, Leetonia
Thomas Joseph Caldwell, Mentor on the
Lake
Sheri Dawn Carner, Girard
Kelley Ann Cassidy, Centerville
Maria Sherrilyn Chand, Copley
Thomas Robert Cherry, Columbus
Jan Susan Claggett, Grove City
Amy Louise Clark, Bryan
Eunice Elizabeth Clark, Columbus
Jennifer Christine Elizabeth Clemens, Van
Buren
Mary Catherine Coleman, Lancaster
Deirdre Ann Collins, Worthington
Karen Lee Cook, Warren
Patricia Marie Cooke, Brook Park
Linda Ann Cornn, Marengo
Cynthia Leigh Cox, Columbus
Cassandra Lynn Crank, Columbus
Lynne Ann Crofts, Lockport, NY
Althea Pauline Crome, Yellow Springs
Elizabeth Susan Cypher, Medina
Patricia Ann Davenport, Cincinnati
Cheryl Elaine Davis, Delaware

Deborah Lynn DeBacker, Sylvania
 Kristine N. Debeljak, Mentor
 Angela Dawn Deck, Wilmington
 Oscar R. Del Barco Lara, Cochabamba, Bolivia
 Michelle Marie Deszcz, Brecksville
 Maria DiNovo, Newbury
 Amy Jo Dodson, Shiloh
 Betsy Kay Donahoe, Urbana
 Kathy Lynn Donaldson, North Jackson
 Erin May Eaglin, Dayton
 Rae Jean Fisher, Rushville
 Susan Marie Foster, Ravenna
 Karen Lynn Fox, Massillon
 Marie Louise Frazier, Wooster
 Christopher Charles Frederick, Columbus
 Michael Edward Furda, Wintersville
 Kelly Deanne Furlong, Naperville
 Michele Renee Garnet, Cortland
 Cheryl Lynn Geiger, Delaware
 Lori S. Gillfillan, Grove City
 Gretchen Fay Gnagey, Avon Lake
 Teresa Ann Gordon, Dayton
 David Lee Gray, Celina
 Terri Lynn Guanciale, Warren
 Wendy Jo Harbison, Seven Hills
 Regina Lynne Harder, Kenton
 Tessa Lynne Hay, West Jefferson
 Linda Kay Hiltz, Powell
 Tammy Rae Hollback, Wheelersburg
 Lisa Ann Holpit, Mentor
 Amy Elizabeth Hook, Cincinnati
 Christine Virginia Horattas, Stow
 Jane Marie Hougland, Napoleon
 Marci Lee Hrdlicka, St. Clairsville
 Timothy John Huffman, Poland
 Brian Slaughtery Hunsicker, Doylestown
 Karen Gail Hupp, Caldwell
 Joanne Jacobsky, Solon
 Lori Ann Jeskey, Oregon
 Gregory Scott Johnson, Columbus
 Celeste Marie Jones, Gahanna
 Cynthia Ann Kovacs, Youngstown
 Amy Michele Kramer, Centerville
 Michele Ann Kraynak, Youngstown
 Laura Ann Lesneski, Akron
 Timothy Alan Long, Shadyside
 Julie Lyman, Chesterland
 Christopher Thaddaeus Mancuso, Dayton
 Katrina Lynn Mann, Canton
 Yvette Marie Marmon, Massillon
 Alberto Enrico Marra, Mayfield Heights
 Armand Ludwig Martin, Columbus
 Robert Charles Mears, Canton
 James Michael Mehalik, Middleburg Heights
 Stephen Michael Mendicino, Fairview Park
 Lisa Marie Mino, Seven Hills
 Alice Jodelle Mitchell, Columbus
 Stephen Matthew Molloy, Cincinnati
 Christine Ann Molnar, Amherst
 Ronda Ann Morbitzer, Grove City
 Susan Jill Myers, Holland
 Jody Elizabeth Near, Coshocton
 Judy Bich Nguyen, Columbus
 Ali Said Nouwairi, Saida, Lebanon
 Deborah Lynn Nugent, Columbus
 Andrea Lee Oliver, Bryan

Kelly Lynn Ottenweiler, Bexley
 Joanna Susan Pallos, Columbus
 Kenneth Joseph Papa, Brecksville
 Mary Monica Papay, Amherst
 Preya Kanu Patel, Reynoldsburg
 Beth Ann Peters, Cloverdale
 Jodi Ann Petry, Findlay
 Stacey Ann Pfeifer, Nashport
 Karen Dolores Phillips, Westerville
 Lisa Ann Phillips, Hubbard
 Frances Claire Quinn, Zanesville
 Katrina Marie Ray, Kettering
 Laurie Anne Reinker, Elyria
 Michael Edward Ribar, Kent
 Maureen Marie Riley, Shelby
 Jane Leanne Roberts, Zanesville
 Diane Thomas Rogers, West Jefferson
 Stanley Ray Roth, Killbuck
 Kathleen Lois Russell, Canfield
 Tracy Marie Saco, Columbus
 Jennifer Schaengold, Columbus
 James Michael Scherman, Scottsdale, AZ
 Lori Jane Schiefer, Tiro
 Mary Susan Schrote, Marion
 David Russell Schumick, Columbus
 Andrea Lynn Schwaderer, Marion
 Teresa Jane Scott, Grove City
 Laura Ann Sewalk, Coshocton
 Samantha Lee Shilling, Smithville
 Connie Frances Siefker, Miller City
 Shani Kay Simmers, Newark
 Stephanie Ann Salter, Chillicothe
 Laura Catherine Smith, Tiffin
 Patricia Marie Smith, Reynoldsburg
 Robert Charles Split, Grand Haven, MI
 Mindy Louise Spurlock, Upper Arlington
 Ann M. Steen, Columbus
 Scott George Strager, St. Clairsville
 Robert G. Stricko, Jr., Austintown
 David Allen Styers, Waterville
 Pamela Lynn Sunderman, Girard
 Denise Ann Susi, Columbus
 Malia Kathleen Swab, Dayton
 Christine Anne Tackett, Gahanna
 Tracey Lynn Thompson, Akron
 Sheri Lynn Tilley, Centerville
 Stanley Roger Tripp, Jr., Dayton
 Lisa Ann Truckor, Swanton
 Antonette Kathrine Tumpek, Stow
 Jacqueline F. Wagner, Troy
 Ralph Edward Walters, Cincinnati
 Scott Alan Warren, Columbus
 Debbie Lynn Wellington, Granville
 Kimberly Sue White, Dayton
 Jennifer Jude Williams, Lima
 Laura Lynn Winner, Coldwater
 Deborah Ann Winter, Huber Heights
 Nancy Alice Witushynski, Amherst
 Melanie Lynn Woosley, New Carlisle
 Margaret Lynne Yager, Chesterland
 Michele Zelina, Lorain

Certificate of Post Baccalaureate Medical Illustrator

H. Jane Herbst, Lake Oswego, OR
 B.A., B.S.Agr.

Certificate of Post Baccalaureate Medical Technologist

Bruce Wayne Graybill, Columbus
 B.S.

Certificate of Study in Physical Therapy

Marla Kay Arns, Cincinnati
 B.A. (Central Bible Institute)

Mark W. Melecki, Columbus
 B.S. (University of Dayton)

College of Nursing

Dean: Carole A. Anderson

Bachelor of Science in Nursing

Deborah Sue Agee, Bellevue
 Janet Mary Amabeli, Sebring
 Ginger Ellen Anderson, Mason
 Michelle Yvette Aspinwall, Euclid
 Gail Elizabeth Aznavorian, East Liverpool
 Linda Suzanne Ballweg, Chickasaw
 Jeffrey Howard Baron, Dayton
 Mel Alan Beal, Columbus
 Michelle Ann Beckerich, Dayton
 Maria Nora Begazy, Stockholm, Sweden
 Victoria Lynn Benton, Galion
 Annette Marie Berger, Mansfield
 Joanna Lee Bigler, Macon, GA
 Heather Lenore Bingham, Salem
 Melanie Ann Black, Vienna, VA
 Andrea Lynn Blackwell, Newbury
 Julie Ann Bletso, Kent
 Marie Angela Bondoc, Cincinnati
 Christine Ann Bowe, Canton
 Amy Elizabeth Brown, Chillicothe
 Tracy Marie Bruning, Toledo
 Terri Lee Bunn, Toledo
 Renée Louise Burgdorf, Strongsville
 Krista Kaye Burge, Kettering
 Katherine Lynn Canfield, Medina
 Cynthia Marie Carrier, Lorain
 DiAnna Marie Chiodoni, Massillon
 Robin Renae Christman, Neoga, IL
 Deneen Marie Cianiolo, Loveland
 Amy Jo Cochran, Middleburg Heights
 Todd Edward Cochran, Zanesville
 Kimberly Dawn Cokes, East Cleveland
 Cynthia Louise Collins, Avon Lake
 Tina Lynn Conley, Jeffersonville
 Suzanne Denise Copus, Ada
 Janet Marie Crum, Columbus
 David Scott Davidson, Columbus
 Sandra Ann Deighton, North Olmsted
 Mary Margaret Devitt, Uniontown
 Terri Jean Dials, Sciotoville
 Rose Ann Dible, Sunbury
 Jennifer Sue Duff, Ravenna
 Maxine Agatha Duhaney, Queens, NY
 Laura Kathryn Dykes, Solon

Carol Beth Ecos, Grove City
 Jennifer Anne Edwards, Bexley
 Julie Lynne Edwards, Bexley
 Jill Elizabeth Ehrbar, North Olmsted
 Carmen Lynn Eikenberry, Gahanna
 Kristen Karen Erickson, Cincinnati
 Michele Dawne Flickinger, Wooster
 Stacey Joan Foster, Warren
 Lisa Ann Fray, Bloomingdale
 William Paul Frichtel, Youngstown
 Carole Lynn Gabel, Dublin
 Joan Michele George, Newark
 Linda Jean Goettemoeller, St. Henry
 Pamela Goines, Willard
 Kelly Ann Gray, Ashland
 Kimberly Anne Greene, Englewood
 Erik Hans Groscoft, Lakewood
 Melinda Lee Cutridge, Newark
 Constance Virginia Guzman,
 Burlington, IA
 Tina Marie Hamm, Lancaster
 Joan Marie Harder, Columbus
 Debra Denise Harris, Columbus
 Monica Ann Hartman, Cincinnati
 Betsy Lynn Held-Lenhart, Clyde
 Barbara Ann Hickey, Columbus
 Margaret Evelyn Holland, Akron
 Dana Anne Holobinko, Middleburg
 Heights
 Christina Marie Holtsberry, Paulding
 Kathleen June Horner, Plymouth
 Deborah Jean Hudepohl, Mt. Vernon
 Shelia Ann Jackson, Cleveland
 Robert Matthew Janes, Grove City
 Deborah Ann Janki, Chesterland
 Kimberly Ann Jeffries, Fairfield
 Joan Christine Jentgen, Columbus
 Kelvin James Johnson, Akron
 Wendy Sue Johnson, Oregon
 Jennifer Ann Judy, Warren
 Dawn Alecia Kamen, Pepper Pike
 Susan Lynn Keller, Wapakoneta
 Jody Jean Quisenberry Klejka, Avon
 Pamela Lynn Kline, Elyria
 Elizabeth Anne Komer, Orrville
 Margaret Ann Koster, Rocky River
 Stephanie Noelle Kramer, Lorain
 Cynthia Marie Kulis, Chesterland
 David Thomas Kwiatkowski, Berea
 Allison Jean LaChappelle, Rocky River
 Lisa Christine Lambert, Ashland
 Lucilla Lauderdale-Carr, Cleveland
 Karen Elaine Long, Worthington
 Pamela Darda Lopez, Vineland, NJ
 James Richard Lowe, Columbus
 Traci Lenee Lutz, Bucyrus
 Ann Marie Christine Lyden, Youngstown
 Laurie Sue McCloud, Columbus
 Rhonda Lynn McCoy, Wheelersburg
 Siobhan Marie McGreal, Westlake
 Susan Renee McKee, Forest
 Todd Dewitt McKee, Forest
 Joseph Scott Mackley, Columbus
 Donna Marie Mandula, Seven Hills
 Kathleen Helen Markham, Cincinnati
 Heidi Marshall, Springfield
 Shelley Elaine Martin, Columbus
 April Lynn Mayer, Novelty
 Kimberly Ann Mayer, Marysville

Elizabeth Ann Mazza, Cincinnati
 Judith Ann Mennetti, Columbus
 Rebecca Lynn Menning, Columbus
 Marilyn Marie Meyers, Kettering
 Karen Marie Miele, Cincinnati
 Brian King Miller, Pittsburgh, PA
 Deborah Lynn Miller, Shelby
 Mary Beth Miller, Lorain
 Janet Gabriel Miranda, Lorain
 Ruth Lydia Mountain, Broadview Heights
 Theresa Mary Murnane, Columbus
 Erin Louise Murray, Piqua
 Joyce Anne Mutchler, Mansfield
 Kandi Sue Myers, Pitsburg
 Deborah Jean Nally, Columbus
 Denise Renee Naugle, Ashland
 Douglas Alan Neal, Jamestown
 Denise Renee Nolder, Sandusky
 Jennifer Anne Ormond, Akron
 Lynetta Ann Orr-George, Utica
 Jill Renee Papoi, Napoleon
 Jamie Lynn Patrick, South Webster
 Valerie Edwards Peart, London
 Melanie Sue Piatt, Columbus
 Paula Jean Piatt, Columbus
 Debra Ann Primovic, Bridgeport
 Beth Ann Putz, Worthington
 Christine Elaine Rankin, London
 Danielle Chrissah Richardson, Cleveland
 Douglas Patrick Rider, Cleveland
 Beth Ann Rogers, Cadiz
 Susan Jane Rosenberger, Worthington
 Renee Ellen Rubin, Cleveland
 Yvonne Sue Rucker, Worthington
 Cheryl Marie Sarvay, Cleveland
 Pamela Sue Schweitzer, Dublin
 Donetta Jane Setters, Fairborn
 Kari Lynn Shank, Springfield
 Elizabeth Anne Sipp, Upper Arlington
 Cheryl Renee Skidmore, Fairborn
 Jody Lynn Slivka, Cincinnati
 Diane Lynn Smith, Columbus
 Mark Edwin Spittler, Dayton
 Deborah Suzanne Stanford, Perrysburg
 Kristi Annette Staugh, Newark
 Julie Marie Stebens, Upper Arlington
 Sue Ellen Steinmetz, Mount Vernon
 Susan Lynae Stuckey, West Unity
 Rhoda Kirsten Sulzbach, Youngstown
 Lisa Ann Summa, Reynoldsburg
 Constance Mary Swartz II, Columbus
 Diane Elizabeth Taylor, London
 Mary Therese Templin, Mentor
 Donna Denise Tesler, Medina
 Michaela Anne Thum, Bexley
 Charles Samuel Tonkin, Delaware
 Sherry Lynne Ulrich, Columbus
 Jennifer Louise Weekly, Newark
 Rena Marie Wellman, Indiana, PA
 Mary Ellen White, Columbus
 Gerri Lynn Wilson, Bellevue
 Robyn Anne Wisti, Scarborough, Ontario,
 Canada
 Laura Jane Wood, Lorain
 Sandra Kay Wooddell, Columbus
 Susan Marie Zalack, Brunswick
 Janet Marie Zumrick, Youngstown

College of Optometry

Dean: Frederick W. Hebbard

Doctor of Optometry

Paul Joseph Alton, Mansfield
 B.S.

Alice Marie Bacak, LaCarne
 B.S.

Lisa M. Badowski, Broadview Heights
 B.A. (Miami University)

Scott Patrick Barron, Lincoln, NE

Mark Andrew Bashore, West Carrollton

Marlos Darlene Begeny, Warren
 B.A. (Miami University)

Loren Wallace Bennett, Enon
 B.A. (Ohio Wesleyan University)

Lynn Blair, Belpre

Sharon Marie Brokamp, Cincinnati

Kelly Lynn Carson, Portsmouth

Kathleen Monica Cleary, Elmira, NY
 B.S. (Saint John Fisher College)

Craig Alan Coleman, Columbus

Jon H. Cooperrider II, Loudonville

Ronald David DiFrangia, Akron
 B.S.M.E. (University of Akron)

Daniel C. Drought, Geneva
 B.S.

Michael J. Earley, Chicago, IL
 B.A. (Northwestern University)

William Edward Glenn II, Morrow
 A.B. (Miami University)

Todd Alan Hershner, Granville

Levelle Bristow Jenkins, Columbus

John Joseph Jicha, Chagrin Falls
 B.S. (Marietta College)

Kathy Lynn Jochum, Akron

Joel Andrew Kennedy, Rockbridge

Kris A. Kline, Circleville

Kim Marie Korte, Beloit

James Nasser Lehman, Greenville
 B.S. (Manchester College)

Diane Elizabeth Levin, Canton
B.S.

Lorie Lee Lippiatt, Salem
A.A.S. (Youngstown State University)

Christopher J. Meyer, Mantua

Walter Frederick Morton, Reynoldsburg
B.A. (Miami University)

James B. Mowbray, Portsmouth

Tracy Alane Parks, Westerville
B.A. (University of Kansas)

Lon Douglas Patton, Sidney
B.S.

Jonathan J. Pflueger, Loudonville

Jennifer Lynne Planitz, Cortland

Timothy Raymond Poling, Mentor on the
Lake

Daniel Allen Poth, Navarre

Melissa J. Rutan, Columbus

Stephen Frederick Sasala, Jefferson
B.S. (John Carroll University)

Mark Everett Schmidt, New Bremen

Shirley J. Schneppe, Lorain

Dana Lynn Shepard, Plainfield, CT
B.A. (Miami University)

Mark P. Strosser, Hermitage, PA

Thomas Edward Talkie, Bethel
B.A. (Heidelberg College)
M.Ed. (Wright State University)

Teresa Marie Thomas, Brookfield

Joseph George Van Keuren, Elyria
B.S.

James Edward Volk, Devils Lake, ND
B.S. (North Dakota State University)

Jeffrey Kent Wallace, Boston, NY
B.A. (State University of New York at
Buffalo)

Kenneth Robert Westcott, Norwalk

John Anthony Wiener, Cincinnati
B.A. (University of Cincinnati)

Sharon Lynne Williams, Fishers, NY
B.S. (Saint John Fisher College)

Karen Ann Winters, Columbus
B.S., M.S.

Melanie Ann Katko-Young, Columbus

John Paul Sekiguchi Yu, Columbus
B.S.

Tracy Andrea Zemel, University Heights
B.S.

Randal Lee Zink, Clarington

College of Pharmacy

Dean: John M. Cassady

Bachelor of Science in Pharmacy

Scott Anthony Baran, Warren
Craig William Baxter, Minerva
Michael Vincent Benedict, Springfield
Michael Joseph Blake, West Union
Stacy Leigh Bratton, Northfield
Jacqueline Eve Briskin, Dayton
Evelyn Leora Cassell, Parkersburg, WV
Terence SingWa Chim, Hong Kong
Lena Chou, Taipei, Taiwan, R.O.C.
Keith Allen Chrisanthus, Canton
Robert Bruce Christian, Oak Hill
Mary Ann Coco, Alliance
Karen Anne Colegrove, Wheelersburg
Paul Carl Cook, Westchester
Ted Michael Crum, Columbus
Karen Michele Darnell, Ironton
Maria Ann Delorenzo, Cincinnati
Kimberly Ann Eliot, Niles
John Edward Fedyna, Bellevue
Renard Joseph Flora, Napoleon
Dannene Sue Haas, Canton
Peter Joseph Hart, Cincinnati
Deanna Elinor Hedges, Columbus
Arthur Phillip Hess III, Indianapolis, IN
Carol Ann Hudecek, Northfield
Lisa Marie Huffman, Warren
Brian Colyer Johnson, Hillsboro
Jeffrey Michael Ketz, Solon
Barry Edward Klein, Cuyahoga Falls
Laura Renee Klein, Delaware
David Patrick Kling, Sandusky
Brian Raymond Leon, Lorain
David Eugene Little, West Jefferson
Catherine Marie Lopienski, Akron
John Clifton Mattern, Cadiz
Nannette Lynn Meyers, Wintersville
Marianne Lucille Penrose, Stockport
Megan Leiendecker Peters, Columbus
Pammi Jo Phillips, Euclid
Robin Gale Plummer, Farmington
Lisa Ann Porter, South Charleston, WV
Judith Lynne Portwood, Columbus
Cheryl Lynn Rearick, Westerville
Christine Lynn Ritzman, Norton
Laura Anne Ritzman, Norton
Kathleen Ann Ryan, Lima
Richard James Schlagheck, Holland
Pamela Louise Schuller, Naperville
Paige Ann Seyffer, Cincinnati
Karen Marie Shutway, Broadview
Sharon Sue Starling, Marietta

John Robert Stone, Kingsport
John Alexander Sunycz, Cuyahoga Falls
Timothy Brian Temelkoff, Canfield
Julie Ann Tiberi, Columbus
Stephanie Lynn Todd, Columbiana
John David Waddell, Cincinnati
Mary Lynn Walerius, Cincinnati
Sheri Lynn White, Ashland
Lisa Rae Wolf, Massillon
Linda Arlene Wright, Edison

College of Social Work

Dean: Richard E. Boettcher

Bachelor of Science in Social Work

Kimberly Nina Allen, Cleveland
Lori Ann Borders, Marion
Diana Lynn Borghese, Columbus
Karen Sue Boyce, Columbus
Karyl Renee Brown, Beaver Creek
Kimberly Kay Byrd, Ashville
Lucian Danean Christian, Columbus
Melanie Brown Clinger, Worthington
Tamarack Robert Czarnik, Appleton, WI
Vernajeane Eggleston, Mt. Gilead
Kenneth Blaine England, Johnstown
Virginia Marie Everman, Maria Stein
Daniel Charles Fagan, Jr., Columbus
Stephen Michael Fidler, Mt. Gilead
Veronica Ann Finnegan, Shelby
Dorine Kay Firestone, Massillon
Luann Garcia, Canton
Nella B. Garrett, Bellefontaine
Shirley Smoyak Goldhaber, Columbus
Jennifer Ann Gully, Lebanon
Dwight W. Haskins, Marion
Kimberly Jo Haywood, Coshocton
Mary Elizabeth Hibbard, Canton
Elisabeth Leigh Hinkleley, St. Albans, WV
Karen Ann Hopkins, Delaware
Cheryl Ann Hostetler, Plain City
Carol Ann Jimenez, Brecksville
Lorrinda Roxanne Kentner, Big Falls, MN
Jeannine King-Melchiorre, Columbus
Amelia Susan Kromer, Sandusky
Jenney Marie Kundert, Lima
Victoria Rue Lancaster, Brookpark
Jo Ellen Lane, Worthington
W. Glenn McCleese, Marion
Deborah Kay McLin, Rockbridge
Tamara Rene Mapp, Columbus
Sherry Lynn Mathias, Carroll
Michelle Lauren Mohr, Rocky River
Mindy Lou Mowrey, Granville
Mary Anne Mozina, Salem
Barbara R. Nauman, Marion
Lisa Jo Nelson, Pickerington
Yvonne Mae Osborne, Cleveland
Kimberly Ann Pahys, Avon
Cathy Rae Patterson, Granville
Jordana Lynn Pearce, Rockbridge
John Alan Perlin, Warren
Karen Ann Presley, Kent
Brenda Marie Ridgeway, Cleveland
Gayle Marie Root, Columbus

Elaine Michele Savoca, Wooster
 Deborah Sue Schreiner-Ramey, Columbus
 Renee Christine Shonk, Columbus
 Delores O'Brien Siders, Rittman
 Laura Marie Smith, Chagrin Falls
 Sonja Renee Stechsulte, Findlay
 Constance Lou Stupelli, Waynesfield
 Denise Ann Sutter, St. Henry
 Linda Sue Teets, Hilliard
 Donna Tenenhaus, Columbus
 Kimberly Renee Toler, Zanesville
 Donna Marie Tooill, Lancaster
 Andrea Marie Tuscan, Canton
 Stephanie Anne Weeks, Chicago
 Paula Rose Wehrman, Wapakoneta
 Sharon Kay White, Columbus
 Patricia Ann Williams, Columbus
 Susan L. Williams, Mansfield
 Lauri Elizabeth Young, Uniontown

College of Veterinary Medicine

Dean: Ronald A. Wright

Doctor of Veterinary Medicine

James Joseph Ack, University Heights

Douglas Philip Allen, Ralston, NE

Nancy Lee Anderson, Lakewood

Brenda Ann Arth, Bay Village
 B.S.

Lisa Ann Baltes, Sandusky
 B.S.

Linda Marie Barone, Freehold, NJ
 B.S. (Virginia Polytechnic Institute &
 State University)

Frederic Blaine Bennett, Westerville
 B.S. (The Pennsylvania State University)

Bradley Kent Benson, Pender, NE
 B.S. (University of Nebraska)

David Paul Billig, St. Louisville
 B.A. (Hiram College)

Richard William Bink, Brecksville
 B.A. (Findlay College)

Debra Jane Bishop, Fairborn
 B.S. (Wright State University)

Michelle Alana Bishop, Gilmanton, NH

Timothy David Blocher, Canton
 B.S.

Sherrilyn Camille Brannon,
 Lexington, MA
 A.B. (Smith College)

Jill Ann Brown, Eaton
 B.S.

Mary Virginia Burns, Wheeling, WV

Theodore Neil Clark, Jr., Beaver
 Dams, NY
 B.A. (Hiram College)

Stanley Donald Dannemiller, Columbus
 B.S., M.S.

Deborah G. Day, Cincinnati
 B.S. (University of Cincinnati)

Thomas Kevin Day, Reynoldsburg
 B.S.

Gina Marie DeChant, Rocky River
 B.S.

Gregory Smith Dey, Allentown, NJ
 B.S. (Rutgers University)

Jorge Luis Diaz-Umpierre, Rio
 Piedras, PR
 D.V.M. (Universidad Nacional Pedro
 Henriquez Urena)

Stephanie Burk Diehl, Middletown
 B.A. (Miami University)

Andrew Discafani, Garfield, NJ
 B.S. (Montclair State College)

Beth Eileen Dobie, St. Marys
 B.A. (Miami University)

Michelle Ann Doyle, Marion
 B.S. (Ohio University)

David Alan Drake, Toledo
 B.S.

Jean Marie Duddy, Quincy, MA
 B.S.

Susan Mae Emans, Celina
 B.S.

Brenda Sue Evans, Burton
 B.S.

Jeanette Lynn Floss, Hilliard
 B.S.

Maria Del Carmen Garcia, Miami, FL
 B.S. (University of Dayton)

James Scott Gaynor, Akron
 B.A. (Colorado College)

Scott Alan Gearhart, Lima
 B.A. (Miami University)

Pamela Allison Green, Hollis, NH
 B.S.

Scott Kevin Greene, Sparks, NV
 B.S. (University of Nevada-Reno)

Mark Douglas Hagen, Orrville
 B.S.

Mark Eugene Hardesty, Wapakoneta
 B.S., M.S.

D. Scott Harmon, Youngstown

Dianna Lyn Harper, Scott Depot, WV
 B.S. (West Virginia University)

Rebecca Ann Hart, Berea
 B.S.

Kevin Keith Haussler, Doniphan, NE
 B.S. (University of Nebraska)

Sandra Lou Hickey, Wheeling, WV
 B.S. (West Virginia University)

Stephen Blane Jaffe, Canton
 B.S.

Sheila Walsh Jarasek, Cincinnati
 B.S. (University of Cincinnati)

Joan Suzette Jeffrey, Waverly, NE
 B.S. (Nebraska Wesleyan University)

Amy Elizabeth Johnson, Columbus
 B.S. (Ashland College)

Nikolay Kapustin, Canton
 B.A. (Walsh College)

Eileen Therese Kellner, Cleveland
 Heights
 B.S.

Kathryn Lyn Killian, Oxford

Wayne Alan Knapke, Batavia
 B.S. (Bowling Green State University)

Lori Ann Koenig, Chagrin Falls
 B.A. (Case Western Reserve University)

Rolland William Kramer, Stapleton, NE

James Loyd LaRue, Phoenix, AZ
 B.S. (University of Nebraska)

Sidney David Lehr, South Plainfield, NJ
 B.S. (University of Delaware)
 M.S. (Case Western Reserve University)

Teresa Ann Liberati, North Canton

Mark Liberto, Baltimore, MD
 B.S. (Towson State University)

Joyce Ann Login, West Caldwell, NJ
 B.S. (University of Massachusetts)

Bruce Charles Lowry, Whitehouse

Dena Marie Mangiamiele, Oceanside, CA B.A. (University of Nebraska)	Tracey Elizabeth Rock, Sewickley, PA B.S. (The Pennsylvania State University)	B.S. (Bowling Green State University)
Hilary Kay Matthews, Broadview Heights B.A. (Wittenberg University)	Susan L. Rogers, Akron B.A. (Wells College) M.S. (University of Akron)	Ted Phillip Vlahos, Columbus B.S., M.S.
Carla Sue Mayers, Bowling Green B.S.	William John Rueger, Jr., Plain City B.S.	Margaret Louise Francis Vogt, Akron B.S. (Rosemont College)
Lynn Anne McCarron, Kent B.S. (Kent State University)	Ann Hunt Ryer, Ruxton, MD B.S. (Bates College)	Mary Ann Vonderhaar, Cincinnati
Susan Gloria Metz, Lorain	Ardonia Ellen Sams, Davisville, WV B.S. (West Virginia University)	Robert James von Seggern, Delta B.S., M.S.
Debra Lee Mikulski, Sandusky B.S.	Suzanne Kay Schmitt, Port Clinton B.S.	Susan Orbovich Wagner, Steubenville B.S. (Carnegie-Mellon University)
Timothy Roderick Muench, Miamisburg	Carol Ann Schoyen, Painesville	Renee Rae Watters, South Euclid B.S.
Lee Michael Nowac, Cleveland B.S. (John Carroll University)	Virginia Ann Scrivener, Hagerstown, MD	Ann Bigelow Weil, Littleton, NH A.B. (Cornell University) M.S. (University of Kentucky)
Terence Alan Olive, Riverside, NJ B.S.	Urban Michael Seger, Minster	Mary Sue Welling, West Chester B.S.
Karen Sue Osborn, Philo	Inder Sehgal, Charleston, WV B.S. (West Virginia University)	Robert John Wendell, Columbus B.S., M.S.
Catherine Anne Palomar, Canton	Scott Milton Siegel, South Charleston, WV	Juli Anne Westfall, Pelham, NH B.S. (University of New Hampshire)
Christopher Lusk Parfitt, Valley City B.A. (Hiram College)	Lester Blaushild Sills, Columbus B.A. (Ithaca College)	Amy Jeanne White-Predieri, Cardington B.S. (Purdue University)
Ann Teresa Parker, Marion B.S. (Ohio University)	Claudia Rea Sims, Warren B.A. (University of North Carolina)	David Gordon Whittington, Malvern B.S. (Mount Union College)
Gregory Robert Parks, Tuscarora, NV B.A. (University of California at Santa Cruz)	Neal James Sivula, Painesville	Linda Maureen Wilmot, Silver Spring, MD B.S., M.S. (University of Maryland)
Paul Andrew Pifer, Sandusky B.S. (Miami University)	Tammie Lyn Smith, Columbus Grove B.S.	Sandra Kay Woolever, Pickerington B.S.
Leslie Alan Polasky, Cincinnati B.S., M.S. (University of Cincinnati)	Karen Ann Sokol, Dayton B.S.	Richard Allan Yokell, Fairborn
Anita Kay Poling, Lancaster B.S.	Michael Lee Sparling, Cadiz B.S.	Glenn Anthony Yovino, Hopkinton, NH B.S. (University of New Hampshire)
Phyllis Jo Polumbo, Tionesta, PA B.S. (University of Pittsburgh) M.S. (University of Oregon)	Jeffrey T. Speicher, Columbus B.S.	Michael Edward Zuccaro, Middleburg Heights B.S.
Linda G. Quodomine, Bloomfield, NJ B.S. (University of Kentucky)	Penny Sue Stalnak, Chappel, NE	Joseph Charles Zulty, Baltimore, MD B.A. (University of Maryland-Baltimore)
Jeffrey Dwayne Reiswig, Columbus B.A. (Oberlin College)	Michael Richard Stone, Oak Harbor B.S.	
Mary Ann Richmond, South Euclid	Jack S. Tibbitts, Parma B.S. (Bowling Green State University)	
Philip Anthony Ries, Cincinnati B.A. (Miami University)	Karol Lynne Troyer, Columbus B.S.	
Carrie Helene Robinson, Bloomington B.S.	Wayne William Turner, Youngstown B.S.	
Bret Lyle Rochotte, Alvada B.S. (Heidelberg College)	Lisa Marie Underwood, Columbus B.S.	
	James Glendon Vance, Lorain	

Graduates with Honors

Criteria for graduating with honors are as follows:

Summa Cum Laude designates those graduating in the top 3% of the class.

Cum Laude designates those graduating in the top 10% of the class.

With Distinction requires successful completion of a Senior Honors Thesis, oral examination, and graduation in the top 25% of the class.

With Honors in the Liberal Arts requires successful completion of the Arts and Sciences Honors Contract and graduation in the top 25% of the class.

With University Honors designates those graduating with curricular distinction and dedication to high educational goals.

Summa Cum Laude with Honors in the Liberal Arts and with Distinction in Arabic

John Edward Hinton

Summa Cum Laude with Honors in the Liberal Arts and with Distinction in Chemistry

Corinne Elizabeth Lehmann
Gregory Adam Reichard

Summa Cum Laude with Honors in the Liberal Arts and with Distinction in History of Art

Catherine Cope Cupps

Summa Cum Laude with Honors in the Liberal Arts and with Distinction in International Studies

David Patrick Warner

Summa Cum Laude with Honors in the Liberal Arts and with Distinction in Mathematics

Michael A. Ulm

Summa Cum Laude with Honors in the Liberal Arts and with Distinction in Music

Sean William Ferguson

Summa Cum Laude with Honors in the Liberal Arts and with Distinction in Political Science

Patrick Jude Haney

Summa Cum Laude with Honors in the Liberal Arts and with Distinction in Psychology

Rebecca Lynne Galerston
Mary Jean Petron

Summa Cum Laude with Honors in the Liberal Arts and with Distinction in Speech and Hearing Science

Margaret Jones Dillon

Summa Cum Laude with Honors in the Liberal Arts and with Distinction in Zoology

David Charles Olson

Summa Cum Laude with Distinction in Accounting

Daniel James Finneran
Paul Edward Stebel

Summa Cum Laude with Distinction in Agricultural Economics

John G. Labine

Summa Cum Laude with Distinction in Animal Science

Eugene David DeBruin

Summa Cum Laude with Distinction in Biochemistry

Jane Ann Beebe

Summa Cum Laude with Distinction in Engineering Physics

Eric Robert Ulm

Summa Cum Laude with Distinction in Family Resource Management

Joellen Laurene Jannot

Summa Cum Laude with Distinction in History of Art

Christine Rose Mannix

Summa Cum Laude with Distinction in Mathematics

Gregory Morris Saunders

Summa Cum Laude with Distinction in Natural Resources Development

Vanessa Jeanne Steigerwald

Summa Cum Laude with Distinction in Pharmacy

John Edward Fedyna

Summa Cum Laude with Distinction in Physical Education

Janet Sue Fink

Summa Cum Laude with Distinction in Social Studies Education

Debra E. Heffner

Summa Cum Laude with Distinction in Sociology

Martha Elliott Brown

Summa Cum Laude with Distinction in Textiles and Clothing

Molly Anne Miller

Summa Cum Laude with Honors in the Liberal Arts

Daniel Aronowitz
Deanna Eileen Brusadin
Laura Ann Duren
Susan Ruth Facer
Andrew Galen Fox
Melody Lynn Hesse
Lisa Marie Joliat
Arthur Wesley Lewis
Susan Marie Luke
Cheryl Marie Mansky
Susan Marie Mathews
Redonda Gail Miller
Asma Mobin-Uddin
Lois Miriam Moon
Diana Dee Phillips
Susan Kay Pieper
Renée Aileen Schwartz
David Kenan Solacoff
Mark Charles Witte

Summa Cum Laude with University Honors

Mark Efthimios Juras
Geraldine Anne Sinatra

Summa Cum Laude

Kenneth Christopher Adkins
Jusuf Anwar
Gail Elizabeth Aznavorian
Pamela Kay Barnett
Robin Lynn Barr
Robert Fager Black III
Marie Angela Bondoc
Andrew W. Booker
Diana Lynn Borghese
Debra Lynn Boyer
Fian Ellen Brum
William Todd Burger
John Joseph Clifford
Mark Patrick Collins
Leesa Irene Comparin
Lisa Lynn Conant
Cynthia Leigh Cox
Elizabeth Susan Cypher
Tamarack Robert Czarnik
Steven John Decker
Jill Mary Dickey
Diane Marie Dierna
Betsy Kay Donahoe
Casey Devin Doyle
Michael J. Earley
Lynn Ann Ervin
Claire Louise Esmond
Cathy Ann Finafrock
Michele Dawne Flickinger
Andrew Galen Fox
Todd Eugene Freed
Jonathan Charles Glover
Shirley Smoyak Goldhaber
Bette Jean Hartschuh
Kimberly Jo Haywood
Jilaine Marie Henley
Karen Brown Hicks
Cheryl Ann Hostetler
Bradford Eugene Houser
Ethan Tyler James
Jane Eunha Kang
Dennis Michael Kolb
Nicholas Louis Kondoleon
Jacqueline Sue Lepley
Jack Chee Sheng Loh
Sherry Lynn Mathias
Timothy Lawrence McGarry
Layne Alison Meyer
Gregory Thomas Molnar
Kathleen J. Mooney
Deborah Christine Moroz
Mary Anne Mozina
Kandi Sue Myers
Mark A. Nebbergall
Heide Marie Newton
Jeffrey Curtis Oehler
Mary Catherine Oehler
Ashi Sarvabhaum Parikh
Amy Elizabeth Peacher
John Brady Phillips

Tracy Sue Pinnix
Si Alan Pitstick
Anita Kay Poling
Darin Daines Puppel
Gretchen Kay Raymond
Kelly Jo Richardson
Marsha Marie Rickly
Diane Thomas Rogers
Gayle Marie Root
Susan Jane Rosenberger
Kim A. Seeling
Dennis Joe Shank
Scott Michael Short
Dawn Slack
John Christopher Snyder
Patricia L. Snyder
Richard Alan Spech
Sharon Sue Starling
Kimberly Ann Stevenson
Mark P. Strosser
Denise Ann Sutter
Lori Cathleen Swartz-Reeder
John Pfeiffer Sweeney
Lisa Jean Swineford
Rebecca Lee Thomas
Blythe Grace Thomson
David Mario Tortorella
Wayne William Turner
Daniel William Umbach
Michael Louis Vild
Ann Bigelow Weil
Jonathan Sebastian White
Gerri Lynn Wilson
Mark Charles Witte
Fumi Yokota
Ka Cheong Yu

Cum Laude with Honors in the Liberal Arts and with Distinction in Chemistry

Stella Mei-Mei Sung

Cum Laude with Honors in the Liberal Arts and with Distinction in Geology

Tiffany Renée Gentry

Cum Laude with Honors in the Liberal Arts and with Distinction in Mathematics

Joseph Dolinak II

Cum Laude with Honors in the Liberal Arts and with Distinction in Psychology

Robert John Roman
Leann M. Stadlander

Cum Laude with Distinction in Accounting

Brian John Ballou
Jennifer Tracy Rose

Cum Laude with Distinction in Agricultural Economics

Robert Charles Berry

Cum Laude with Distinction in Agricultural Engineering

Charles Wayne Schalk

Cum Laude with Distinction in Animal Science

Timothy David Eppley

Cum Laude with Distinction in Architecture

Thomas John Popoff

Cum Laude with Distinction in Chemical Engineering

Jonathan J. Calderas
Julia Marie Courts

Cum Laude with Distinction in Chemistry

Susan Ransohoff

Cum Laude with Distinction in Dance

Jacqueline Mary Collins

Cum Laude with Distinction in Electrical Engineering

Samuel Kelley Hammel

Cum Laude with Distinction in Forest Resource Management

Timothy James Riegel

Cum Laude with Distinction in Marketing

Sunil Sabharwal

Cum Laude with Distinction in Mechanical Engineering

John Brooks Alford

Cum Laude with Distinction in Pharmacy

Lisa Ann Porter
Cheryl Lynn Rearick
John Alexander Sunyecz

Cum Laude with Distinction in Physical Therapy

Linda Ann Cornn

Cum Laude with Distinction in Psychology

Roberta Sue Seldman

Cum Laude with Distinction in Speech and Hearing Science

Cathy S. Saltkield

Cum Laude with Distinction in Textiles and Clothing

Kristin Joy Uhl

Cum Laude with Distinction in Wildlife Management

David Eric Sherman

Cum Laude with Honors in the Liberal Arts

Constance Curren
Lynne Ann Fiala
Stephanie Anne Gettys
Christine Marie Herridge
Kerry Lee Mattingly
Kathleen Ann McCabe
Mary Margaret McPeck
Cathleen Mae Olsen
Anne Margaret Sykes
Nicholas Thurn
Laura Grace VanArsdale
Jennifer Marie Wilcox
Zeus John Yiamouyiannis
Lisa Ann Youngblood

Cum Laude with University Honors

Patrick Brian Baumle
Kevin Eric Beato
Eric Harlan Berko
Joseph William Bettinger

Deepak Kumar Bhatia
Randolph Jay Cordle
Francine Laura Cosner
Ben Burris Creighton
Robert Keith Goldberg
Lynn Lemar Hamilton
Thomas John Henderson
Christopher Allen Ito
Neovi Michael Karakatsanis
Mahmood Karbasi-Amel
Richard Lynn Neighbarger
Donald Kenneth Perry
Robert Price Perry
Jeff E. Roan
Randy L. Sanders
Harold Keith Sauter
Mark Paul Schnaible
Steven Eric Schupbach
Russell Alan Simmons
David Alan Tonnies
Lauren Elizabeth Weiss
Robert Alan Zimmerman

With Honors in the Liberal Arts and with Distinction in Computer and Information Science

David Andrew Guralnick

With Honors in the Liberal Arts and with Distinction in English

Sally L. Davis

With Honors in the Liberal Arts and with Distinction in Photography and Cinema

Andrea Virginia Macioce

With Distinction in Ancient History and Classics

Elizabeth Lynne Beavers

With Distinction in Architecture

Patrick Thomas Kelly

With Distinction in Art

Donald Odili Oditia

With Distinction in Chemical Engineering

Todd Kevin Pencarinha

With Distinction in Elementary Education

Ann Beth Dolan

With Distinction in German

Jeffrey Stuart White

With Distinction in International Studies

Kimberly Kaye Richards

With Distinction in Mechanical Engineering

William John Fosnight

With Distinction in Natural Resources Development

Peter Norman Johnson
Ilene Stephanie Zeff

With Distinction in Pharmacy

Pammi Jo Phillips

With Distinction in Physical Therapy

Maria Dinovo

With Distinction in Psychology

William Christopher Suren

With Distinction in Wildlife Management

Craig Allen Davis

With Honors in the Liberal Arts

Froukje Margaret Beynen
Mary Beth Breckenridge
Scott Allen Brown
Lisa Jeannette Carlin
Laura Lynn Curtis
Anne-Marie del Giudice
Lisa Ann Dewire
Emily Bouic Engle
Sylvia Eleny Fronista
Priscilla L. Hapner
Lisa Marie Hirsch
Zoltan Ferenc Kanyo
Deborah Lynne McNinch
Cynthia Elizabeth Miller

Anthony Abrillo Moraleja
 Karen Sue Quigley
 Frank James Reed, Jr.
 Sloan Eric Rubin
 Michael Lawrence Waxman
 Patricia Ellen Young

With University Honors

Robert G. Blanke
 Larean Denise Brandon
 Phyllis Renee Daniels
 Constance Lou Stupelli
 Russell Melinda Thackery
 Julia Marie Wiant
 Patricia Ann Williams
 Angela Mahan Yeldell

Cum Laude

Mark Ellis Aebi
 Caren Sue Albers
 Michael Todd Allen
 Sherry Elizabeth Altizer
 Nancy Lee Anderson
 Timothy Lee Arndts
 Michael Todd Arrigo
 Benjamin Dean Babcock
 Jeffery Alan Bahnsen
 Patricia A. Bainter
 Chandra Sue Baldwin
 Susan Kay Brittain Banbury
 Linda Marie Barone
 Sharon Lee Beets
 Frederic Blaine Bennett
 Victoria Lynn Benton
 Darlene Marie Berres
 Chirag H. Bhatt
 Jana Joan Blamble
 Andrew Brian Bokor
 Deborah Ann Bonarrigo
 Gregory Allen Bonnell
 Kathleen Annette Borchers
 Patricia Jones Bornheim
 Sheryl Lynn Bowling
 Laurel Nikki Bravo
 Laura Marie Brechbill
 Casey Jay Bricker
 Annette Laraine Brough
 Nancy Lee Brower
 Deanna Eileen Brusadin
 Dennis Lynn Buehler
 William Bruce Bunn
 Kevin Scott Burdette
 Duane Allen Burks
 Michael Gregory Burns
 Paul Andrew Butrey
 Michelle Lynn Callahan
 Karen Jo Carpenter
 Jeffrey Bernard Casamento
 Evelyn Leora Cassell
 Bruce Edward Chapa
 William Yu-Wei Chen
 Terence Singwa Chim
 Mary Catherine Chojnacki
 Yew Leong Choong
 Mark Joseph Christel

Jan Susan Claggett
 David Eugene Clarke
 Johann Joseph Comprix
 Karen Colleen Conlin
 Catherine Louise Copich
 Melinda Kay Corwin
 Thomas Anthony Cullinane
 David James Cunningham
 Jennifer Jo Dale
 Timothy Robert Daughenbaugh
 Julie Ann Davis
 William Jay Decker
 Mary Margaret Devitt
 Beth Ann Dible
 Suzanne Renee Doinoff
 Timothy Adam Doyle
 Nancy Michelle Dragan
 Paul Henry Dreyfuss
 Jennifer Sue Duff
 Gregory Edward Dykes
 Laura Kathryn Dykes
 Mark E. Easterday
 Douglas Wade Eaton
 Marsha Kay Erickson
 Lisa Lynne Evans
 Lynn Mitchell Exline
 Anne Marie Fay
 Ruth Ann Feldman
 Rebecca Ruth Ferris
 Lisa Kay Finney
 Sandra Kay Flanigan
 Jill Annette Fockier
 Lowell Arick Forrest
 Susan M. Fosselman
 Kimberly Ann Fullman
 Kelly Sue Gabriel
 Julie Ann Gafford
 Carolyn Marie Gaines
 Joanne Lynn Gamnes
 Robert David Garland
 Steven Paul Garn
 Christine Marie Geers
 Cheryl Lynn Geiger
 Louis Raymond Gibb
 Diane Ruth Glimcher
 Katherine Elizabeth Glowacki
 Linda Jean Goettmoeller
 Pamela Goines
 Kimberly DeLynne Goodwin
 Geoffrey Lawrence Gordon
 Pamela Jean Graber
 Bradley Jay Greenberg
 Ann Marie Greenwald
 Daniel Wesley Grinstead
 David Charles Gross
 Jennifer Ann Guley
 Dannene Sue Haas
 Craig Allen Hackworth
 Rebecca Ann Hart
 Holly Anne Hartman
 Patricia Ann Hartmann
 Marcia Sue Hayes
 Wayne Steven Heiler
 Donna Kristen Heisler
 Thomas John Henderson
 Denise Janette Hergatt
 Mary Elizabeth Hibbard
 Barbara Ann Hickey
 Linda Kay Hiltz

Jong Chul Hoh
 Lisa Ann Holpit
 Ruth Anne Inglis-Hirsch
 Mark Warren Isakowitz
 Richard Victor Jacko
 Deborah Ann Janki
 Sheila Walsh Jarasek
 Kathleen Mae Jeffery
 Julianne Jenkins
 Martin David Jenkins II
 Daniel Jizhar
 Kathy Lynn Jochum
 Matthew Stephen Johnson
 Vicki Lee Johnson
 Peter Kevin Kageyama
 Panagiotis George Kakalettris
 Lori Ellen Katz
 Ing Chuan Kau
 Mary Karen Keber
 Craig Douglas Kelley
 Douglas Stephen Kilmer
 Julie Rae Kimmel
 Martha Jean Kirner
 James John Klocinski
 Catherine Marie Knox
 Tammy Kay Kornja
 Michele Ann Kraynak
 David Charles Krutz
 Jeffrey Alan Krol
 Kyra Ann Kurtz
 Dijana Kuzarevski
 Julie Ann Landholt
 Rebecca Ruth LaRoe
 Darlene Marie Lebens
 James Alfred Lesti
 Seth D. Leventhal
 Barry Ira Levy
 Teresa Ann Liberati
 AnneMarie Loftus
 Jeffery R. Lohmeyer
 Glenn Allen Loomis
 Chin Wah Low
 Troy Luther Luke
 Tracy Lenee Lutz
 Ronald Frank Maceyko
 Kathleen Helen Markham
 James Craven Martin, Jr.
 Christopher John Matlock
 Hilary Kay Matthews
 Theodore Pete Mattis
 Kimberly Ann Mayer
 Elizabeth Ann Mazza
 Shelley Lynn McBean
 W. Glenn McCleese
 Steve Edward McKee
 Daniel Scott Merker
 Brian Keith Mexicott
 Nannette Lynn Meyers
 Amy J. Miller
 Robert Louis Miller
 Braden Kent Moll
 Brian Keith Moll
 Victor Linn Mollett
 Deborah Jo Moore
 Deborah Marie Morgan
 David John Mosbacher
 Adam Nathan Moskowitz
 John Steven Mulhollan
 Sheryl Ann Mulne-Derrow

Roger James Myers
 Koji Nagai
 Helen Ann Napier
 Robin Lee Nesbitt
 Michele Louise Noel
 Susan Rose Ogrinc
 Yeong-Cheol Oh
 Mercedes Maria Olivera
 Gregory Robert Parks
 Deborah Lynne Patterson
 Maryann Elizabeth Payne
 Rhonda Sue Peters
 Jeffrey Alan Peterson
 Colleen Marie Pinkelman
 Diane Sue Pollock
 Judith Lynne Portwood
 Susan Lynn Potter
 Robin D. Powell
 Karen Ann Presley
 Frances Claire Quinn
 Eydie Anne Radugge
 Christine Marie Rankin
 Heather Chapin Reed
 Jeffrey Dwayne Reiswig
 Richard Allan Repp
 Anthony Paul Restuccio
 Karen Rene Richards
 Barbara Williams Ritchie
 Joseph Reid Ritchie
 Laura Anne Ritzman
 Jane Leanne Roberts
 Francis Howard Rogers III
 Lori Lynn Rogers
 Bonita Lynn Rolletta
 William John Rueger, Jr.
 Suzanne Russo
 Jeffrey A. Salisbury
 Ralph Christian Samlowski
 Catherine Ann Schilling
 Mark Everett Schmidt
 Shirley J. Schneppe
 William Steven Schreiner
 Anne Marie Schulte
 Ronald Roy Schweiger
 Teresa Jane Scott
 Urban Michael Seger
 James Paul Shaffer
 Daniel David Shellenbarger
 Christine Ann Shepherd
 Shawn Douglas Sheridan
 Kaya Shih
 Renee Christine Shonk
 Sandra Catherine Shrader
 John Ebin Simpson, Jr.
 Steven Wayne Smith
 Kristin Carson Smithberger
 Vicki Lynn Snider
 George Chris Soulas
 George Andrew Souris
 Cynthia Sedor Spicker
 Carl Alan Spurbeck
 Brian Ray Stahl
 Jaylyn Marie Stahl
 Michelle Marie Stanford
 Stacey Ann Stipkovich
 Laura Frances Stock
 Tonda Kay Strouble
 Theodore Joseph Stumphauzer
 Kwang I. Suh

Martha Priscilla Sulser
 Matthew John Tagliaferri
 Roger Cheong Ling Tai
 Eric Michael Tallan
 Thomas L. Teater
 Timothy Earl Thetford
 Mark Anthony Thomas
 Nathan David Thomas
 Cindy Ogle Thompson
 Ross Alan Timmons
 Christopher John Tomko
 Sandra Lou Treadway
 Steve A. Turner
 Marshall Lee VanDeWalle
 Tim Christopher Velliky
 Michael Hung Vo
 James Edward Volk
 Rena Marie Wellman
 Timothy Gerard Wenning
 David Alexander Whitcomb
 Cynthia Ruth White
 Sharon Kay White
 Stephen Allan White
 John Anthony Wiener
 Kathryn Patricia Wilcox
 Paula Helene Windle
 Susan Michelle Winslow
 Deborah Ann Winter
 Cameron Dwight Wright
 Linda Arlene Wright
 Victorea Danene Wright
 Blyth Marie Wurth
 Scott Daniel Zehnal
 Renee Marie Zelis
 Dina Zinni
 Christian Aaron Zorman
 Joseph Charles Zulty

THE OHIO STATE UNIVERSITY
OFFICIAL PROCEEDINGS OF THE
ONE THOUSAND TWO HUNDRED AND FORTY-SECOND MEETING
OF THE BOARD OF TRUSTEES

Columbus, Ohio, June 2 and 3, 1988

The Board of Trustees met at its regular monthly meeting on Thursday, June 2, and Friday, June 3, 1988, at The Ohio State University Fawcett Center for Tomorrow, Columbus, Ohio, pursuant to adjournment.

* * *
Minutes of the last meeting were approved.
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June 2 and 3, 1988 meeting, Board of Trustees

The Chairman, Mr. Immke, called the meeting of the Board of Trustees to order on June 2, 1988, at 6:00 p.m. He requested the Secretary to call the roll.

Present: Leonard J. Immke, Chairman, John W. Berry, Shirley D. Bowser, Hamilton J. Teaford, John J. Barone, Deborah E. Casto, John W. Kessler, Milton A. Wolf, and Leslie H. Wexner.

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COMMITTEE APPOINTMENTS 1988-89

Resolution No. 88-130

WHEREAS the appointments to Committees and representatives to the Research Foundation Board of Directors, the Development Fund Board of Directors, the Inter-University Council, the University Hospitals Board, the University Foundation Board of Directors, and the Ohio State University Affiliates, Inc., Board of Directors for 1988-89 are as follows:

Educational Affairs Committee	Deborah E. Casto, Chairman Hamilton J. Teaford, Vice Chairman Milton A. Wolf Student Trustee
Fiscal Affairs Committee	John W. Kessler, Chairman John W. Berry, Vice Chairman Shirley D. Bowser
Standing Committee on Agricultural Affairs	Hamilton J. Teaford, Chairman Steven D. Maurer, Vice Chairman, Ex Officio John J. Barone
Student Affairs Committee	Milton A. Wolf, Chairman Deborah E. Casto, Vice Chairman Leslie H. Wexner Student Trustee
Personnel Committee	Leonard J. Immke, Chairman John W. Berry, Vice Chairman Shirley D. Bowser
Development Fund Board of Directors	John W. Kessler (1987-89) Milton A. Wolf (1987-89)
Inter-University Council	Leslie H. Wexner
Research Foundation Board of Directors	John J. Barone (1987-90)
University Hospitals Board	Shirley D. Bowser Hamilton J. Teaford
University Foundation Board of Directors	Leonard J. Immke Hamilton J. Teaford*

*Executive Committee

June 2 and 3, 1988 meeting, Board of Trustees

COMMITTEE APPOINTMENTS 1988-89 (contd)

Ohio State University Affiliates,
Inc.

Leonard J. Immke (term 1 year)
John W. Berry (term 2 years)
Shirley D. Bowser (term 3 years)

NOW THEREFORE

BE IT RESOLVED, That the Committee appointments and the representatives to the Research Foundation Board of Directors, the Development Fund Board of Directors, the Inter-University Council, the University Hospitals Board, the University Foundation Board of Directors, and the Ohio State University Affiliates, Inc., Board of Directors for 1988-89 are hereby ratified and confirmed.

Upon motion of Mrs. Bowser, seconded by Mr. Barone, the Board of Trustees adopted the foregoing resolution by unanimous roll call vote.

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The meeting recessed into Executive Session for the purpose of considering legal issues and personnel actions as follows: faculty/staff appointments and reappointments, resignations and terminations, leaves of absence without salary, professional improvement leaves, promotions/tenure, emeritus titles, and medical staff appointments.

Upon motion of Mr. Teaford, seconded by Mr. Barone.

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Mr. Immke reconvened the meeting on June 3, 1988, at 10:05 a.m.

Present: Leonard J. Immke, Chairman, John W. Berry, Shirley D. Bowser, Hamilton J. Teaford, John J. Barone, Deborah E. Casto, Milton A. Wolf, and Leslie H. Wexner.

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INTRODUCTION OF LESLIE H. WEXNER

Mr. Immke introduced the new member of the Board of Trustees:

I am pleased to have the opportunity to officially welcome Les Wexner as the newest member of The Ohio State University Board of Trustees. Mr. Wexner is very familiar to the Ohio State family through his work with The Ohio State University Foundation, as a speaker at commencement, and as a benefactor of the arts on campus. He is the founder, President, and Chairman of the Board of The Limited, Inc., which operates 3,200 stores and mail order divisions. Les has been extremely productive in civic, charitable, and corporate activities across the country and he will be, I am sure, an asset to our Board. Please join me in welcoming Les Wexner as a Trustee.

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June 2 and 3, 1988 meeting, Board of Trustees

Mr. Immke:

Dr. Brand would you introduce Andrea Lunsford, Professor in the Department of English, who will make a presentation to the Board?

Dr. Brand:

My pleasure, Mr. Chairman. As you know, we are engaged in a major curriculum review and reform. We are looking at the entire undergraduate experience from the core or basic education courses through the majors, through the support and delivery systems. One of our major changes will be an increase in the requirements in writing and communication courses. Indeed, we are tripling that -- if the proposal passes the faculty -- we are proposing to triple it for all students. We are asking not only the English Department to assume a part of the instructional load, but the individual units as well so that students will obtain writing experiences in their major programs and in their areas of interest, as well as basic composition courses.

In order to carry out this significant increase in writing skills instruction, Professor Andrea Lunsford, who is Vice Chair of the Composition and Rhetoric Department in English, has been working with faculty members in other colleges. Professor Lunsford came to Ohio State last year from the University of British Columbia. She is a national leader in writing instruction movements -- she has two books in press now, for example. In addition, she chairs the National Conference on Composition Writing in Colleges. I am also proud to say that she is an Ohio State Ph.D. in 1977. Professor Lunsford will relate one experience she is having right now in working with the College of Agriculture in developing writing instruction within that College. It is a very exciting program, very successful, and something we can certainly be proud of. Professor Lunsford if you would --

Dr. Andrea A. Lunsford:

I have with me this morning Professor Carl Zulauf from Agricultural Economics, who is going to talk a little about his part of the program as well. Thank you, for that introduction Myles. With all this talk about Buckeyes, I think that I am a real "super Buckeye." I was lecturing in England a couple of years ago and in a really interesting interpretation of my C.V., I was introduced, to my alarm, as the first person to graduate from Ohio State University. The original Buckeye, and with my gray hairs I can speak with great authority on all topics having to do with OSU.

I am, of course, delighted to speak to this body today about my special interest, which is writing in all of its aspects across the University curriculum. As you know, the country is awash in stories of the illiteracy of American youth and problems with writing throughout the country and especially in the public schools. The Appleby Stanford Study of a few years ago revealed that in spite of some real improvements in public schools we still could only count on any student in high school spending about four minutes a day in actual writing. This was a surprise to some and not so much a surprise to others. In report

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Dr. Lunsford: (contd)

after report, like A Nation at Risk and many other commission reports, we have heard calls for a renewed interest in and increased emphasis on writing throughout the grade levels.

Well why are people so exercised about writing? Why are we so interested in this subject at Ohio State University? I think first of all because writing is not simply a matter of dotting our "i's" or getting our commas in the right places. Those activities are important, of course; they allow us to be better understood by people. But they are really a very, very small part of what writing entails. The larger part of writing entails creating a conceptual framework and then sustaining a sophisticated line of reasoning within that conceptual framework. That is the hard and big part of writing. And it is the definition of writing that people like Gene Fowler have in mind when they say, "Oh, writing is easy, all you do is sit staring a blank piece of paper until drops of blood start to form on your forehead." I have been in that position myself only recently. So perhaps writing is one of the most intellectually challenging acts possible -- it's obvious, of course, that I think it is.

Still, why is it so important to learning, let's say in a field like agriculture? Why have a Learning Through Writing Project at all, especially -- and I want to emphasize this -- since writing is very, very labor and time intensive? You can not teach writing, just as you could not coach football with one coach and seven hundred players; neither can you teach writing with one teacher and six or seven hundred students. It is very time and labor intensive. Well, I want to give three brief answers to that question and then just talk very briefly about the Learning Through Writing Project in Agriculture.

My first answer to the question, "Why is writing important to agriculture?" comes from evidence from the professional work place. To present to you only one small piece of evidence, a five-year study of ten professions in the United States found that members of those professions -- and these were professions as varied as chemists, consulting engineers, chief executive officers, and city managers, a very broad spectrum of professions in the United States -- not only spent between 40% and 50% of their time in some kind of writing or writing related activity, but that they ranked writing as most important in understanding the new information related to their profession and as most important in getting ahead in that profession. They also reminded us that writing skills are developed over a lifetime. If we could only just inoculate students as they came through the doors and say, "here is your dose of writing and now you will be a good writer." And they reminded us that skills in writing are not easily transferred from one field to another. So that if I had to go to work in President Jennings's office next week, although I am a pretty strong writer, I would have a lot of learning to do to be able to do the kind of writing that President Jennings's office would demand of me. Or if I decided to go into law, again, I might be a very strong writer, but I would have a lot of learning to do. So skills in writing develop

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Dr. Lunsford: (contd)

over a lifetime and change from one field to another. At least we hope they develop over the lifetime. I was thinking of one of Ohio State's famous students, James Thurber, who, approaching the age of sixty, said that he thought he could detect inflammation of the sentence structure and hardening of the paragraphs as he approached sixty. Of course, you can look at his writing and see that that was not the case.

For my second answer to the question, "Why use writing to learn material in agriculture?" comes from studies of learners. These studies also corroborate the evidence provided by professionals on the job. Now I won't get on my favorite hobby horse about learning theory or harangue you about that. Let me just summarize by saying that research in artificial intelligence and in cognitive studies is beginning to map the territory of memory, which is, of course, instrumental to all of writing and to all of learning. The researchers are finding that writing is very closely tied to memory. There are, of course, historical reasons for this in the west. The Ohio State University's Brain Behavioral Lab which is, as far as I know, unique in higher education in this country, is exploring those relationships and studying the ways that the cognitive and social aspects of writing work to embed information in our neural pathways and to embed strategies for problem solving in those pathways as well. I think this sounds kind of formidable, but we all know what the artificial intelligence researchers are talking about. If we really want to figure something out, if we work through it in writing, we will know it in a way that we don't know it in any other way. I take it, in my very limited understanding, that that is what these people are studying.

Well, my third and final answer to the question, "Why we should use writing to learn material in agriculture?" comes from demographic information which I think urges us to connect writing to learning throughout the school years, including and perhaps particularly in the college years. Recent information from the Department of Labor presents us with some pretty startling pieces of information about our changing population and our changing student body. For instance, starting in September, thirty percent of the first graders in urban areas will be the first born of parents who dropped out of school for pregnancy -- thirty percent of the first graders. Those are children that will not come to school with much of a background in writing. Fifty percent of our population will soon have English as a second language, that is going to present us with some real challenges. Children, of course we know this already, spend upwards of forty hours a week watching television. And this is my favorite statistic from the Labor Department -- ninety-three percent of the American families do not match the norm for American families. So we have a seven percent norm -- that is to say families with two parents, and with one parent around to do some talking, reading, and writing with the child before the child comes to school.

Well such figures graphically demonstrate that the schools alone can no longer rely on traditional institutions to link writing

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Dr. Lunsford: (contd)

and learning -- the family, for instance, the church, or even large social institutions like the Boy and Girl Scouts. And I want to tell you if you can remember being in the Scouts, you did a lot of writing to get those badges. Those institutional supports are not as helpful to us as they once were. Still, we know for sure that facility in writing, or what the researchers call literate behavior, is an essential ingredient to learning. So in the face of such answers and such pieces of demographic information, what is a great land-grant, multiversity like Ohio State to do?

Well, I think we can begin to pick up the ball, to run with it, to take the initiative ourselves in linking writing and learning throughout our college years as forcefully and rigorously as we possibly can. It is entirely appropriate in this regard that the College of Agriculture, so closely identified with all of Ohio State and traditionally so dedicated to excellence in education for undergraduates and graduates, takes the lead in such a bold endeavor, and so the Learning Through Writing Project was born. I have distributed to you a one-page description of the goals of that project. The agriculture faculty quickly grasped the implications of the curricular review we have conducted under Provost Brand's direction and they also quickly grasped the importance of writing in the revision in the curriculum. So they proposed an experimental project designed to integrate writing more fully into their curriculum right across-the-board. This they have done, following their fine proposal with a very elegant research design and then implemented that design this quarter with rigor and enthusiasm. A core group of instructors redesigned their courses to integrate writing more fully into the whole course. A systematic evaluation of that program has gone on throughout the quarter and, in fact, tomorrow morning at 9:00 we will gather with the agricultural faculty to read pieces of writing that the students produced at the end of the quarter, compared to pieces of writing that the students produced at the beginning of the quarter. So we will have some very hard information about what changes occurred in writing over the course of this term with writing intensive activities imbedded in the courses. We don't have that information today to share with you, but some of the teacher evaluations of the program and the student evaluations are in.

I would like to conclude my remarks by quoting from one of the student evaluations of a class in which a particular kind of writing assignment had been introduced. On a 3 x 5 card the students were asked to write a mini-essay of what had gone on in their reading assignments and class discussions for the week. They had to do this all the time, quite regularly. You can imagine when this was announced in this particular class that many of the students probably felt as a lot of these students did. I have five pages here of comments from the students about the series of assignments that they didn't really warm up to at the first announcement. But many of the responses are very similar to the one that I will read to you now: "I believe that this idea of using file cards to judge the length of writing assignments is an excellent one. You needed (you being the

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Dr. Lunsford: (contd)

teacher) a way to verify that the class was understanding the material." Of course that is one of the values of writing for the teacher, you can tell whether the student "gets it" or not. "The assignments were long enough to encourage creative thinking on our part, but they were short enough to prevent one from being dragged down by the assignment. I am not keen on writing assignments in general, but these were actually helpful," the student says. "I believe you have a good idea here and I will continue to use it. And, finally, I hate to say this, but these assignments were almost fun."

If we can get students to say writing assignments are almost fun, I think we will have succeeded in our endeavors. I would like to turn to Professor Zulauf, now, for a few words about the professorial part of this project. And, of course, we would be happy to answer any questions that you might have. Thank you, very much for letting me come here this morning.

Professor Carl R. Zulauf:

Thank you, Andrea. It is my pleasure to be here today and to follow-up on Andrea's introduction. I would just like to make a couple of observations about this program. I became interested in writing because I kept hearing from potential employers of students how writing, and communication in general, was so important to them. And how, in their view, the educational system was letting them down. They were having to spend a lot of time retraining writing and communication skills. I have a couple of observations on the proposal itself. First of all, it has been very helpful to be with faculty in the College who are committed to writing and to hear the diversity of ways of incorporating writing into one's course. Andrea has touched on one, another professor has rediscovered and reemphasized essay take home exams and grading them on the holistic style of writing, as opposed to subject matter; another is emphasizing term papers; another one that I am using is a congressional writing style -- one page, briefing paper for a representative or senator. Students have found it to be very useful, very helpful, and informative, as well as improving writing skills.

Dr. Lunsford:

Fun?

Professor Zulauf:

Fun, to a point. And, finally, I would like to say that the access to Andrea has been very helpful. To get a professional view from someone other than just subject matter discipline and outside your subject matter has been very useful. She has presented a lot of ideas -- some I've excepted, some I have not, but a lot of ideas for consideration that has broadened appreciation for writing. This holistic view of writing is something I was always leaning to, but could never conceptualize. It has been very useful to experience this assignment. I could not commend it highly enough, so I thank you very much.

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Mrs. Bowser:

Am I permitted a personal comment?

President Jennings:

Yes, please.

Mrs. Bowser:

My father, who also served on the Board of Trustees, came to Ohio State in 1925 and, came to be recognized in the State of Ohio as quite an agriculturalist. He came and majored in English in the Arts College. His father felt that agriculture was something that he could learn at home, but that he needed to know how to speak and write in order to promote the agriculture that he knew. And so it delights me to see the College of Agriculture associated with this writing project.

Dr. Lunsford:

Well, they are the first.

Mrs. Bowser:

Well, they are first in my heart, too.

Dr. Lunsford:

Thank you, again.

Dr. Brand:

Mr. Chairman, may I make some concluding remarks? I want to complement Andrea, as well as the faculty members in the College of Agriculture.

We are moving past the kind of fragmentation that often infects a large institution. The cooperative efforts between the Arts and Sciences and the professional schools is clearly the direction that we are going to have to follow. I fully believe that Ohio State is leading the way nationally on this. When we look at the large universities, particularly the land-grant institutions that have the full range of activities that we have, it is only by taking advantage of that full range and collaborating amongst ourselves that we will have a true comparative advantage nationally. So, I see this as part of a larger effort and, again, I must complement all those who participated in this.

Mr. Immke:

Thank you, Myles.

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Mr. Immke:

I would like to call on Mr. Barone to make the committee report for the Research Foundation.

June 2 and 3, 1988 meeting, Board of Trustees

Mr. Barone:

Thank you, Mr. Chairman. Members, I would like to give the report of what occurred at our meeting yesterday morning at the Faculty Club.

Research Foundation grants and contracts for the month of April 1988 are shown in the Board Agenda book. I would suggest to the Members to go through those, they are part of the agenda and are itemized there. There are 116 awards listed which provide a gross income of \$7.5 million.

For the first ten months of the fiscal year (July 1, 1987 to April 30, 1988) we received 1,012 awards with a gross income of \$83.5 million. Last year at this time we had 900 awards with a gross income of \$71.6 million. This represents a 16 1/2 percent increase in funding for the ten month period. I believe this is the greatest ever for the Research Foundation.

Industrial funding increased significantly this month. Notable increases were also received from the National Science Foundation and the Department of Health and Human Services for the month of April 1988.

Some highlights of awards for April are:

- * \$278,542 award from the National Cancer Institute to the Department of Internal Medicine, for continuation of research into improved methods of treating cancer.
- * \$173,685 award from the National Institute of Health to the College of Nursing to determine the effects of an exercise training program with cancer patients.
- * \$45,000 award from the U.S. Department of Education to the Department of Slavic and East European Languages and Literatures to establish an Ohio State-Purdue University Russian Language Program at the Pushkin Institute in Moscow, USSR.

I think with President Regan's visit to Moscow, if anybody saw that, they could see the importance of being able to speak Russian. And the number of Russians that were able to speak English so fluently was amazing. I think this, in turn, should be very beneficial because it will teach the language, in Moscow.

I think we should thank Shirley for this next one --

- * \$50,000 award from the Kellogg Foundation to the Cooperative Extension Service, to promote family community leadership.

Thank you, Shirley. That completes my report; however, I would like to ad-lib on one of the facts that we discussed at length yesterday -- and Weldon can testify to that and that is to the fact -- we have a Research Foundation that brings in approximately \$100 million a year and it is in a building that most of the employees there and anyone that sees it would think it is rather shabby. It needs a lot of remodeling and a lot of

June 2 and 3, 1988 meeting, Board of Trustees

Mr. Barone: (contd)

repairing. I just can't feel that any organization that brings in \$100 million -- we should make some effort to better the working conditions, number one. And secondly, I think the award people who see the building would -- I would say that is very poor salesmanship to have something in such disrepair. I would like to have the Board think about this and have Weldon, with the help of Mr. Jackson, to see if we can better the working conditions and the facilities of the Research Foundation. Thank you.

Mr. Immke:

Thank you, Mr. Barone. Mrs. Bowser, Hospitals Board Report --

Mrs. Bowser:

Yes. The Hospitals Board's Executive Committee met last Thursday and welcomed Joel Teaford who is the new member from the Trustees. We reviewed the Hospitals' proposed budget and heard updated reports on the progress of MedOhio physician recruitment.

A Cancer Hospital report was provided by Dr. David Schuller who shared with the members present a revised equipment list identifying major pieces of equipment yet to be funded for the operation of the Research Institute. These requests included the purchase of a cyclotron, PET scanner, a microtron, as well as additional operating rooms and computer hardware. The total amount comes to \$10 million. It is anticipated that these needs will be reviewed with the President and that development dollars will be utilized to purchase the equipment. In addition, Dr. Schuller shared a new draft of an organization chart depicting the administrative reporting relationships of the Cancer Hospital. Though there are some differences of opinion on the proposed structure, it is anticipated that these will be worked out and brought back to the Hospitals Board for their consideration. Many of the recommendations made were to assist the Hospital in its application for an exemption from the Medicare DRG system. In this way, additional revenues can be generated for the Hospitals.

Insofar as the Hospitals budget proposal is concerned, the Hospitals propose to generate 28,645 admissions and revenues of \$230 million. It is anticipated that an 8% rate adjustment will be made. Expenses are projected to be approximately \$214 million. The details associated with this budget can be provided to you by Mr. Covert or Mr. Ihrig. After extensive review by the Operations and Executive Committees of the Board, this budget is recommended to the President and the Board of Trustees for their approval as part of the total budget package of the University.

There being no other major business, the Board adjourned its official meeting so that it could hear a presentation on the Hospitals' proposed fund raising efforts for the future. I submit this report.

June 2 and 3, 1988 meeting, Board of Trustees

Mr. Immke:

Thank you, Mrs. Bowser. Any questions? That completes our committee reports for this month.

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RENAMING OF SCHOOL

Resolution No. 88-131

Synopsis: A proposal to change the name of the School of Public Administration to the School of Public Policy and Management is recommended.

WHEREAS the proposed name change of the School of Public Administration to the School of Public Policy and Management has the unanimous support of the faculty in the School, the faculty in the College of Business, and the Council on Academic Affairs; and

WHEREAS the proposed name more accurately reflects the teaching and research missions of the School and describes the scope of its programs; and

WHEREAS the University Senate approved the renaming of the School of Public Administration on May 7, 1988:

NOW THEREFORE

BE IT RESOLVED, That the proposal to change the name of the School of Public Administration to the School of Public Policy and Management, effective January 1, 1989, is hereby approved.

Upon motion of Mrs. Bowser, seconded by Mr. Berry, the Board of Trustees adopted the foregoing resolution by unanimous voice vote.

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AMENDMENTS TO THE RULES OF THE UNIVERSITY FACULTY

Resolution No. 88-132

Synopsis: Amendments to rules 3335-7-15 and 3335-9-22 are being proposed.

WHEREAS the University Senate pursuant to rule 3335-1-09 of the Administrative Code is authorized to recommend through the President to the Board of Trustees the adoption of amendments to the Rules of the University Faculty as approved by the University Senate; and

WHEREAS the proposed changes in the Rules of the University Faculty were approved by the University Senate on May 7, 1988, as follows:

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AMENDMENTS TO THE RULES OF THE UNIVERSITY FACULTY (contd)

AMENDED RULES

3335-7-15 Changes of schedules.

- (A) No instructor shall change the hour or place of meeting of any class to which a student has been assigned except with the approval of the office of the university registrar.
- (B) Instructors who deviate from regular university schedules by holding special sessions or examinations must have received approval from their department chairperson, regional campus dean and director or college dean to hold such special sessions or examinations. Such instructors shall accommodate students who may have conflicts because of required attendance in regularly scheduled classes. This rule does not apply to policies for the scheduling of final examinations which are provided in rule 3335-7-20 of the Administrative Code.

3335-9-22 Group absences.

- (A) Whenever possible, group absences shall be planned so that they do not conflict with regularly scheduled classes.
- (B) When a student misses class in order to participate in a university sanctioned event, such as a field trip for another class, or an athletic or band event, or a specially scheduled class or examination scheduled in accordance with rule 3335-7-15 of the Administrative Code, it is the student's responsibility to present, at the earliest possible date, documentation of the required absence to each instructor whose class is to be missed. Documentation may include a copy of the course syllabus that shows the scheduled activity from a class scheduling an event or special session, or a memo from the instructor, coach, or person in authority requiring the absence. It shall be the responsibility of the instructor of the class or coordinator of the event causing the student to miss class to provide such documentation to the student. This documentation may be the basis of an excuse for an absence from class under the policies provided in rule 3335-9-21 of the Administrative Code.
- (C) Instructors of the regularly scheduled classes which have been missed by students attending special sessions or examinations should make reasonable efforts to assist students who miss a class due to authorized absence. The instructor, however, is not obligated to provide make-up classes, laboratory exercises, field trips, or examinations. The student is responsible for material covered in class during the absence. If an examination will be missed, the student should make alternate arrangements prior to the absence with the instructor of the class.

NOW THEREFORE

BE IT RESOLVED, That the foregoing amendments to the Rules of the University Faculty be adopted as recommended by the University Senate.

June 2 and 3, 1988 meeting, Board of Trustees

AMENDMENTS TO THE RULES OF THE UNIVERSITY FACULTY (contd)

Upon motion of Ms. Casto, seconded by Mr. Berry, the Board of Trustees adopted the foregoing resolution by unanimous voice vote.

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**CHANGE "THE HENRY G. CRAMBLETT FUND IN MEDICINE"
TO "THE HENRY G. CRAMBLETT CHAIR IN MEDICINE"**

Resolution No. 88-133

Synopsis: Changing "The Henry G. Cramblett Fund in Medicine" to "The Henry G. Cramblett Chair in Medicine" is proposed.

WHEREAS in accordance with the guidelines previously established by this Board, "The Henry G. Cramblett Fund in Medicine" was established on May 5, 1988; and

WHEREAS all gifts are to be invested in the University's Permanent Endowment Fund, under the rules and regulations adopted by the Board of Trustees of The Ohio State University, with the right to invest and reinvest as occasion dictates; and

WHEREAS at the time of the establishment of the endowed fund it was agreed that the fund be redesignated "The Henry G. Cramblett Chair in Medicine" when the level of funding reaches \$600,000; and

WHEREAS the level of funding has now reached the level required through an additional gift from the Estate of the late Mrs. Helen Simpson Lambacher (B.S.Ed. '33):

NOW THEREFORE

BE IT RESOLVED, That The Henry G. Cramblett Fund in Medicine be changed to The Henry G. Cramblett Chair in Medicine. In keeping with the provisions of the original endowed fund, the annual income is to provide salary and program support in the Department of Pediatrics in The Ohio State University College of Medicine for the work of a distinguished pediatrician who is nationally noted for leading research and patient care in the area of infectious diseases. Appointment to the Cramblett Chair will be made at the recommendation of the Dean of the College of Medicine to the Provost and approved by The Ohio State University Board of Trustees after consultation with the Chair of the Department of Pediatrics and Dr. Henry G. Cramblett, as long as he is living; and

BE IT FURTHER RESOLVED, That should the need for this faculty position cease to exist or so diminish as to provide unused income, then the income may be used for any purpose whatsoever as determined by the Board of Trustees in consultation with the appropriate dean, department chair, or program administrative officer.

Upon motion of Ms. Casto, seconded by Mr. Wolf, the Board of Trustees adopted the foregoing resolution by unanimous voice vote.

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June 2 and 3, 1988 meeting, Board of Trustees

**WAIVER OF PARAGRAPH (G) OF BYLAW 3335-1-08
OF THE ADMINISTRATIVE CODE**

Resolution No. 88-134

Synopsis: Request to waive paragraph (G) of bylaw 3335-1-08 of the Administrative Code for the naming of a road on the Lima Campus.

WHEREAS the Board of Trustees of The Ohio State University did, on January 9, 1976, amend paragraph (G) of bylaw 3335-1-08 of the Administrative Code to state that "buildings and structures shall not be named for any person who is an officer or employee of the University or the State of Ohio, but may be named for a person who has been retired or has otherwise left such a position for a minimum of three years"; and

WHEREAS the President wishes to recommend that Progress Drive on the Lima Campus be named to honor James S. Biddle, who will retire this year as Dean and Director of the Lima Campus:

NOW THEREFORE

BE IT RESOLVED, That the applicable requirements of paragraph (G) of bylaw 3335-1-08 of the Administrative Code be waived so that Progress Drive on the Lima Campus can be named for an officer or employee of the University or the State of Ohio who has not been retired from such position for three years.

Upon motion of Mr. Wolf, seconded by Mr. Wexner, the Board of Trustees adopted the foregoing resolution by unanimous voice vote.

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NAMING OF ROAD

Resolution No. 88-135

Synopsis: A new name is proposed for a road on the Lima Campus, currently known as "Progress Drive."

WHEREAS Dr. James S. Biddle contributed greatly to the development and progress of The Ohio State University Lima Campus throughout his 18 years as Dean and Director; and

WHEREAS the President recommended, with the concurrence of the President's staff, that the road on the Lima Campus currently known as Progress Drive be renamed in honor of James S. Biddle:

NOW THEREFORE

BE IT RESOLVED, That in accordance with the Bylaws of the Board of Trustees, the above specified road shall hereafter bear the name "James S. Biddle Drive."

Upon motion of Mr. Teaford, seconded by Ms. Casto, the Board of Trustees adopted the foregoing resolution by unanimous voice vote.

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June 2 and 3, 1988 meeting, Board of Trustees

HONORARY DEGREES

Resolution No. 88-136

Synopsis: Approval is requested for awarding honorary degrees to three individuals.

WHEREAS the Committee on Honorary Degrees and the University Senate, pursuant to rule 3335-5-488 of the Administrative Code, have approved for recommendation to the Board of Trustees awarding of honorary degrees as listed below:

Marshall Hall, Jr.	Doctor of Science
Austin Kiplinger	Doctor of Humane Letters
Andrei Sakharov	Doctor of Science

NOW THEREFORE

BE IT RESOLVED, That the above honorary degrees be awarded in accordance with the recommendation at a time convenient to the University and the recipients.

Upon motion of Ms. Casto, seconded by Mrs. Bowser, the Board of Trustees adopted the foregoing resolution by unanimous voice vote.

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PERSONNEL ACTIONS

Resolution No. 88-137

RESOLVED, That the personnel actions as recorded in the Personnel Budget Records of the University since the May 5, 1988 meeting of the Board, including the following Changes in Title, Appointment of Chairpersons of Department and Divisions, Reappointment of Chairpersons of Departments, Leave of Absence Without Salary, Leave of Absence Without Salary--Continuation, Professional Improvement Leave, Promotions/Tenure, and Emeritus Titles as detailed in the University Budget be approved.

Changes in Title

Name:	DAVID E. SCHULLER
Title:	Director
Center/Hospital:	Comprehensive Cancer Center and Arthur G. James Cancer Hospital and Research Institute
Effective:	May 1, 1988
Salary:	N/A
Present Position:	Director, Arthur G. James Cancer Hospital and Research Institute

Name:	DAVID S. YOHN
Title:	Deputy Director
Center:	Comprehensive Cancer Center
Effective:	May 1, 1988
Salary:	N/A
Present Position:	Director, Comprehensive Cancer Center

June 2 and 3, 1988 meeting, Board of Trustees

PERSONNEL ACTIONS (contd)

Changes in Title (contd)

Name: STANLEY P. BALCERZAK
Title: Associate Director
Center: Comprehensive Cancer Center
Effective: May 1, 1988
Salary: N/A
Present Position: Deputy Director, Comprehensive Cancer Center

Appointment of Chairpersons of Department and Divisions

July 1, 1988 through June 30, 1989

Art	Robert Shay*
Division of Pharmaceutical Administration	Richard Segal*
Division of Pharmaceuticals & Pharmaceutical Chemistry	Louis Malspeis*

*Acting Chairperson

Reappointment of Chairpersons of Departments

July 1, 1988 through June 30, 1992

Pharmacology	Norton H. Neff
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July 1, 1988 through September 30, 1992

History of Art	Christine V. Bornstein
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Leaves of Absence Without Salary

CHERYL M. GAIMON, Associate Professor, Academic Faculty of Management Sciences, effective Autumn Quarter 1988, Winter Quarter and Spring Quarter 1989, for personal reasons.

WILLIAM D. TODOR, Associate Professor, Academic Faculty of Management and Human Resources, effective Autumn Quarter 1988, Winter Quarter and Spring Quarter 1989, to visit the University of Miami in Coral Gables, Florida.

ANAND DESAI, Assistant Professor, School of Public Administration, effective Autumn Quarter 1988, Winter Quarter and Spring Quarter 1989, for personal reasons.

Leave of Absence Without Salary--Continuation

PRABUDDHA DE, Associate Professor, Academic Faculty of Accounting and Management Information Systems, effective Autumn Quarter 1988, Winter Quarter and Spring Quarter 1989, to continue his Distinguished Professorship at the University of Dayton.

Professional Improvement Leave

MARCUS H. SANDVER, Associate Professor, Academic Faculty of Management and Human Resources, effective Autumn Quarter 1988, Winter Quarter and Spring Quarter 1989.

June 2 and 3, 1988 meeting, Board of Trustees

PERSONNEL ACTIONS (contd)

Promotions and Tenure

College of Agriculture

R. KIRBY BARRICK, JR., Department of Agricultural Education, promotion to Professor, effective July 1, 1988.

MICHAEL A. ELLIS, Department of Plant Pathology, promotion to Professor, effective July 1, 1988.

CAMERON S. THRAEN, Department of Agricultural Economics and Rural Sociology, promotion to Associate Professor with tenure, effective July 1, 1988.

WOLFGANG DIETZ BAUER, Department of Agronomy, tenure, effective January 1, 1989.

FREDERICK A. LENDRUM, Agricultural Technical Institute, tenure, effective April 1, 1989.

ROBERT L. ROMIG, Agricultural Technical Institute, tenure, effective March 15, 1989.

Cooperative Extension

LARRY C. AULT, promotion to Associate Professor, effective July 1, 1988.

DARYL R. CLARK, promotion to Associate Professor, effective July 1, 1988.

DANIEL L. COWDREY, promotion to Associate Professor, effective July 1, 1988.

DORIS I. HERRINGSHAW, promotion to Associate Professor, effective July 1, 1988.

NANCY H. HUDSON, promotion to Associate Professor, effective July 1, 1988.

RICHARD R. MARTIN, promotion to Associate Professor, effective July 1, 1988.

JANIS A. THOMPSON, promotion to Associate Professor, effective July 1, 1988.

GWEN A. HOLSAPPLE, promotion to Assistant Professor, effective July 1, 1988, and tenure, effective January 3, 1990.

CHRISTY F. LEEDS, promotion to Assistant Professor, effective July 1, 1988, and tenure, effective April 1, 1989.

ERIC R. NORLAND, promotion to Assistant Professor, effective July 1, 1988, and tenure, effective December 1, 1989.

KATHY K. OLIVER, promotion to Assistant Professor, effective July 1, 1988, and tenure, effective November 1, 1989.

June 2 and 3, 1988 meeting, Board of Trustees

PERSONNEL ACTIONS (contd)

Promotions and Tenure (contd)

Cooperative Extension (contd)

STEVEN D. RUHL, promotion to Assistant Professor, effective July 1, 1988, and tenure, effective February 1, 1990.

RANDALL H. ZONDAG, promotion to Assistant Professor, effective July 1, 1988, and tenure, effective June 21, 1989.

CARLA A. MENELLE, promotion to Assistant Professor, effective July 1, 1988.

JUANITA E. MILLER, promotion to Assistant Professor, effective July 1, 1988.

GARY W. WILSON, promotion to Assistant Professor, effective July 1, 1988.

BARBARA A. BRAHM, tenure, effective August 1, 1989.

SUSANN K. ERWIN, tenure, effective August 2, 1989.

THOMAS W. HOPKINS, tenure, effective May 3, 1989.

KAREN S. PERRY, tenure, effective March 21, 1990.

College of The Arts

RICHARD W. BURROWS, Department of Dance, promotion to Associate Professor with tenure, effective October 1, 1988.

MYROSLAVA M. CISZKEWYCZ, Department of History of Art, promotion to Associate Professor with tenure, effective October 1, 1988.

SUSAN DALLAS-SWANN, Department of Art, promotion to Associate Professor with tenure, effective October 1, 1988.

EDWIN L. LANKFORD, Department of Art Education, promotion to Associate Professor with tenure, effective October 1, 1988.

TERRY M. BARRETT, Department of Art Education, promotion to Associate Professor, effective October 1, 1988.

PHEORIS WEST, Department of Art, promotion to Associate Professor, effective October 1, 1988.

College of Biological Sciences

BRUCE S. ZWILLING, Department of Microbiology, promotion to Professor, effective October 1, 1988.

RICHARD W. HALL, Department of Entomology, promotion to Associate Professor with tenure, effective October 1, 1988.

June 2 and 3, 1988 meeting, Board of Trustees

PERSONNEL ACTIONS (contd)

Promotions and Tenure (contd)

College of Biological Sciences (contd)

BENJAMIN R. STINNER, Department of Entomology, promotion to Associate Professor with tenure, effective July 1, 1988.

NORMAN F. JOHNSON, Department of Entomology, promotion to Associate Professor, effective October 1, 1988.

College of Business

PRABUDDHA DE, Academic Faculty of Accounting and Management Information Systems, promotion to Professor, effective October 1, 1988.

ROY J. LEWICKI, Academic Faculty of Management and Human Resources, promotion to Professor, effective July 1, 1988.

JOHN R. CURRENT, Academic Faculty of Management Sciences, promotion to Associate Professor with tenure, effective October 1, 1988.

DAVID R. GREENBERGER, Academic Faculty of Management and Human Resources, promotion to Associate Professor with tenure, effective October 1, 1988.

JANE F. MUTCHLER, Academic Faculty of Accounting and Management Information Systems, promotion to Associate Professor with tenure, effective October 1, 1988.

ARNON E. REICHERS, Academic Faculty of Management and Human Resources, promotion to Associate Professor with tenure, effective October 1, 1988.

RALPH A. WALKLING, Academic Faculty of Finance, promotion to Associate Professor with tenure, effective October 1, 1988.

DAVID A. COLLIER, Academic Faculty of Management Sciences, tenure, effective October 1, 1989.

College of Dentistry

KIM A. LAURELL, Restorative & Prosthetic, promotion to Assistant Professor, effective July 1, 1988, and tenure, effective July 1, 1989.

ELIZABETH C. KAO, Restorative & Prosthetic, promotion to Assistant Professor, effective July 1, 1988.

MARILYN J. HICKS, Dental Hygiene, tenure, effective October 1, 1989.

NANCY K. NORDSTROM, Dental Hygiene, tenure, effective October 1, 1989.

College of Education

WILLIAM E. LOADMAN, Department of Educational Theory and Practice, promotion to Professor, effective October 1, 1988.

June 2 and 3, 1988 meeting, Board of Trustees

PERSONNEL ACTIONS (contd)

Promotions and Tenure (contd)

College of Education (contd)

MICHAEL A. KLEIN, Department of Human Services Education, promotion to Associate Professor with tenure, effective October 1, 1988.

GAY SU PINNELL, Department of Educational Theory and Practice, promotion to Associate Professor with tenure, effective October 1, 1988.

PHYLLIS B. POST-KAMMER, Department of Human Services Education, promotion to Associate Professor with tenure, effective October 1, 1988.

GWENDOLYN CARTLEDGE, Department of Human Services Education, tenure, effective October 1, 1989.

VIRGINIA N. GORDON, Department of Human Services Education, promotion to Adjunct Associate Professor, effective July 1, 1988.

College of Engineering

HOJJAT ADELI, Department of Civil Engineering, promotion to Professor, effective October 1, 1988.

STEVEN I. GORDON, Department of City and Regional Planning, promotion to Professor, effective October 1, 1988.

UMIT OZGUNER, Department of Electrical Engineering, promotion to Professor, effective October 1, 1988.

STEVEN B. BIBYK, Department of Electrical Engineering, promotion to Associate Professor with tenure, effective October 1, 1988.

DEBORAH Y. GEORG, Department of Landscape Architecture, promotion to Associate Professor with tenure, effective October 1, 1988.

AMOS GILAT, Department of Engineering Mechanics, promotion to Associate Professor with tenure, effective October 1, 1988.

NORIKO KATSUBE, Department of Engineering Mechanics, promotion to Associate Professor with tenure, effective October 1, 1988.

TEN-HWANG LAI, Department of Computer and Information Sciences, promotion to Associate Professor with tenure, effective October 1, 1988.

WON-KYOO LEE, Department of Chemical Engineering, promotion to Associate Professor with tenure, effective October 1, 1988.

MARK R. MCCORD, Department of Civil Engineering, promotion to Associate Professor with tenure, effective October 1, 1988.

DANIEL A. MENDELSON, Department of Engineering Mechanics, promotion to Associate Professor with tenure, effective October 1, 1988.

June 2 and 3, 1988 meeting, Board of Trustees

PERSONNEL ACTIONS (contd)

Promotions and Tenure (contd)

College of Engineering (contd)

NEELAMEGAM SOUNDARARAJAN, Department of Computer and Information Sciences, promotion to Associate Professor with tenure, effective October 1, 1988.

YAACOV YESHA, Department of Computer and Information Sciences, promotion to Associate Professor with tenure, effective October 1, 1988.

SHIVE K. CHATURVEDI, Department of Civil Engineering, tenure, effective October 1, 1989.

PRABHAT K. GUPTA, Department of Ceramic Engineering, tenure, effective April 1, 1989.

MARC E. POSNER, Department of Industrial and Systems Engineering, tenure, effective October 1, 1989.

College of Home Economics

LUCY R. SIBLEY, Department of Textiles and Clothing, promotion to Professor, effective July 1, 1988.

JANET F. LASTER, Department of Home Economics Education, promotion to Associate Professor, effective October 1, 1988.

RUTH M. CONONE, Department of Home Economics Education, tenure, effective October 21, 1989.

College of Humanities

CATHERINE A. CALLAGHAN, Department of Linguistics, promotion to Professor, effective October 1, 1988.

DAVID J. CITINO, Department of English, promotion to Professor, effective October 1, 1988.

DANIEL M. FARRELL, Department of Philosophy, promotion to Professor, effective October 1, 1988.

TIMOTHY E. GREGORY, Department of History, promotion to Professor, effective October 1, 1988.

BRIAN D. JOSEPH, Department of Linguistics, promotion to Professor, effective October 1, 1988.

DAGMAR C. G. LORENZ, Department of German, promotion to Professor, effective October 1, 1988.

JOHN F. SENA, Department of English, promotion to Professor, effective October 1, 1988.

June 2 and 3, 1988 meeting, Board of Trustees

PERSONNEL ACTIONS (contd)

Promotions and Tenure (contd)

College of Humanities (contd)

HEIMTRAUT F. TAYLOR, Department of German, promotion to Professor, effective October 1, 1988.

LESLIE A. ADELSON, Department of German, promotion to Associate Professor with tenure, effective October 1, 1988.

STEVEN S. FINK, Department of English, promotion to Associate Professor with tenure, effective October 1, 1988.

MARTHA M. GARLAND, Department of History, promotion to Associate Professor with tenure, effective October 1, 1988.

JOSAPHAT B. KUBAYANDA, Department of Romance Languages and Literatures, promotion to Associate Professor with tenure, effective October 1, 1988.

College of Law

SHELDON W. HALPERN, tenure, effective August 16, 1989.

University Libraries

CHARLES J. POPOVICH, Undergraduate/Department Libraries, promotion to Associate Professor, effective July 1, 1988.

AMNON ZIPIN, Public Services, promotion to Associate Professor, effective July 1, 1988.

OLGA E. BESHES, Technical Services, promotion to Assistant Professor, effective July 1, 1988, and tenure, effective September 1, 1989.

MAUREEN H. DONOVAN, Public Services, promotion to Assistant Professor, effective July 1, 1988.

STEPHEN W. ROGERS, Public Services, promotion to Assistant Professor, effective July 1, 1988.

PAMELA S. BRADIGAN, University Libraries, tenure, effective March 15, 1989.

College of Mathematical and Physical Sciences

MICHAEL W. DAVIS, Department of Mathematics, promotion to Professor, effective October 1, 1988.

DAVID J. HART, Department of Chemistry, promotion to Professor, effective October 1, 1988.

CLYDE W. MCCURDY, Department of Chemistry, promotion to Professor, effective October 1, 1988.

June 2 and 3, 1988 meeting, Board of Trustees

PERSONNEL ACTIONS (contd)

Promotions and Tenure (contd)

College of Mathematical and Physical Sciences (contd)

MATTHEW S. PLATZ, Department of Chemistry, promotion to Professor, effective October 1, 1988.

JOSEPH M. ROSENBLATT, Department of Mathematics, promotion to Professor, effective October 1, 1988.

WARREN M. SINNOTT, Department of Mathematics, promotion to Professor, effective October 1, 1988.

BERT K. WAITS, Department of Mathematics, promotion to Professor, effective October 1, 1988.

MICHAEL BARTON, Department of Geology and Mineralogy, promotion to Associate Professor with tenure, effective October 1, 1988.

VITALY BERGELSON, Department of Mathematics, promotion to Associate Professor with tenure, effective October 1, 1988.

ANDRZEJ J. DERDZINSKI, Department of Mathematics, promotion to Associate Professor with tenure, effective October 1, 1988.

PRABIR K. DUTTA, Department of Chemistry, promotion to Associate Professor with tenure, effective October 1, 1988.

MATTHEW FOREMAN, Department of Mathematics, promotion to Associate Professor with tenure, effective October 1, 1988.

RICHARD D. KASS, Department of Physics, promotion to Associate Professor with tenure, effective October 1, 1988.

LAWRENCE A. KRISSEK, Department of Geology and Mineralogy, promotion to Associate Professor with tenure, effective October 1, 1988.

GARY RADER, Department of Mathematics (Newark Campus), promotion to Associate Professor with tenure, effective October 1, 1988.

JOSEPH S. VERDUCCI, Department of Statistics, promotion to Associate Professor with tenure, effective October 1, 1988.

RALPH R. B. VON FRESE, Department of Geology and Mineralogy, promotion to Associate Professor with tenure, effective October 1, 1988.

CLYDE C. GOAD, Department of Geodetic Science and Surveying, tenure, effective October 1, 1989.

GEORGE J. MAJDA, Department of Mathematics, tenure, effective October 1, 1989.

EDWARD A. OVERMAN II, Department of Mathematics, tenure, effective January 1, 1990.

June 2 and 3, 1988 meeting, Board of Trustees

PERSONNEL ACTIONS (contd)

Promotions and Tenure (contd)

College of Mathematical and Physical Sciences (contd)

TARIQ RIZVI, Department of Mathematics (Lima Campus), tenure, effective October 1, 1989.

DAVID H. TERMAN, Department of Mathematics, tenure, effective October 1, 1989.

College of Medicine

M. SUE O'DORISIO, Department of Pediatrics, promotion to Professor with tenure, effective July 1, 1988.

RONALD M. FERGUSON, Department of Surgery, promotion to Professor, effective July 1, 1988.

J. DAVID JOHNSON, Department of Physiological Chemistry, promotion to Professor, effective October 1, 1988.

ROBERT L. RUBERG, Department of Surgery, promotion to Professor, effective July 1, 1988.

RONALD W. TREWYN, Department of Physiological Chemistry, promotion to Professor, effective July 1, 1988.

PETER B. BAKER III, Department of Pathology, promotion to Associate Professor with tenure, effective July 1, 1988.

ROBERT A. BORNSTEIN, Department of Psychiatry, promotion to Associate Professor with tenure, effective July 1, 1988.

THOMAS L. CLANTON, Department of Internal Medicine, promotion to Associate Professor with tenure, effective October 1, 1988.

JOHN D. CORRIGAN, Department of Physical Medicine, promotion to Associate Professor with tenure, effective July 1, 1988.

FERNANDO G. COSIO, Department of Internal Medicine, promotion to Associate Professor with tenure, effective July 1, 1988.

MATTHEW E. DANGEL, Department of Ophthalmology, promotion to Associate Professor with tenure, effective July 1, 1988.

MILES E. DRAKE, JR., Department of Neurology, promotion to Associate Professor with tenure, effective July 1, 1988.

WILLIAM B. FARRAR, Department of Surgery, promotion to Associate Professor with tenure, effective July 1, 1988.

CHARLES G. OROSZ, Department of Surgery, promotion to Associate Professor with tenure, effective July 1, 1988.

June 2 and 3, 1988 meeting, Board of Trustees

PERSONNEL ACTIONS (contd)

Promotions and Tenure (contd)

College of Medicine (contd)

BRUCE G. SOMMER, Department of Surgery, promotion to Associate Professor with tenure, effective July 1, 1988.

RICHARD D. TALLMAN, JR., School of Allied Medical Professions, promotion to Associate Professor with tenure, effective July 1, 1988.

ALTAF A. WANI, Department of Radiology, promotion to Associate Professor with tenure, effective October 1, 1988.

WILLIAM J. BARSON, Department of Pediatrics, promotion to Associate Professor, effective July 1, 1988.

DEBORAH S. PARRIS, Department of Medical Microbiology and Immunology, promotion to Associate Professor, effective July 1, 1988.

TIMOTHY S. GAGINELLA, Department of Internal Medicine, tenure, effective September 1, 1989.

ROBERT M. GUTHRIE, Department of Family Medicine, tenure, effective October 1, 1989.

RICHARD C. ROGERS, Department of Physiology, tenure, effective July 1, 1989.

MARY K. WALLER, School of Allied Medical Professions, tenure, effective August 23, 1989.

WILHELM A. ZUELZER, Department of Surgery, tenure, effective July 1, 1989.

NARCISO S. ALBARRACIN, Department of Pathology, promotion to Clinical Professor, effective July 1, 1988.

DON E. GEBHART, Department of Otolaryngology, promotion to Clinical Professor, effective July 1, 1988.

WILLIAM R. ADRION, Department of Pathology, promotion to Clinical Associate Professor, effective July 1, 1988.

WILLIAM E. COPELAND, JR., Department of Obstetrics and Gynecology, promotion to Clinical Associate Professor, effective July 1, 1988.

PATRICK M. FARDAL, Department of Pathology, promotion to Clinical Associate Professor, effective July 1, 1988.

JAMES W. FERRARO, Department of Surgery, promotion to Clinical Associate Professor, effective July 1, 1988.

ROGER A. FRIEDMAN, Department of Pediatrics, promotion to Clinical Associate Professor, effective July 1, 1988.

CHARLES R. HEDGES, Department of Family Medicine, promotion to Clinical Associate Professor, effective July 1, 1988.

June 2 and 3, 1988 meeting, Board of Trustees

PERSONNEL ACTIONS (contd)

Promotions and Tenure (contd)

College of Medicine (contd)

THEODOR F. HERWIG, Department of Family Medicine, promotion to Clinical Associate Professor, effective July 1, 1988.

WALTER A. HOLBROOK, Department of Family Medicine, promotion to Clinical Associate Professor, effective July 1, 1988.

ALAN D. LETSON, Department of Ophthalmology, promotion to Clinical Associate Professor, effective July 1, 1988.

MARY A. MCILROY, Department of Pediatrics, promotion to Clinical Associate Professor, effective July 1, 1988.

LARRY R. TATE, Department of Pathology, promotion to Clinical Associate Professor, effective July 1, 1988.

RONALD C. VAN BUREN, Department of Family Medicine, promotion to Clinical Associate Professor, effective July 1, 1988.

LOWELL L. WILLIAMS, Department of Pediatrics, promotion to Clinical Associate Professor, effective July 1, 1988.

HAROLD E. HESTLAND, Department of Pediatrics, promotion to Clinical Assistant Professor, effective July 1, 1988.

GEORGE P. PETTIT, Department of Obstetrics and Gynecology, promotion to Clinical Assistant Professor, effective July 1, 1988.

College of Optometry

JOHN P. SCHOESSLER, promotion to Professor, effective July 1, 1988.

College of Pharmacy

MILAP C. NAHATA, Division of Pharmacy Practice, promotion to Professor, effective July 1, 1988.

RICHARD SEGAL, Division of Pharmaceutical Administration, promotion to Associate Professor with tenure, effective July 1, 1988.

CYNTHIA H. JACOBBER, Division of Pharmacy Practice, promotion to Clinical Assistant Professor, effective July 1, 1988.

College of Social and Behavioral Sciences

NANCY E. BETZ, Department of Psychology, promotion to Professor, effective October 1, 1988.

TERRI FISHER, Department of Psychology (Mansfield Campus), promotion to Associate Professor with tenure, effective October 1, 1988.

June 2 and 3, 1988 meeting, Board of Trustees

PERSONNEL ACTIONS (contd)

Promotions and Tenure (contd)

College of Social and Behavioral Sciences (contd)

RICHARD K. HERRMANN, Department of Political Science, promotion to Associate Professor with tenure, effective October 1, 1988.

SHARON C. WEST, School of Journalism, promotion to Associate Professor with tenure, effective October 1, 1988.

LLYLE J. BARKER, School of Journalism, tenure, effective October 1, 1989.

CONRAD SMITH, School of Journalism, tenure, effective October 1, 1989.

College of Social Work

CAROL D. AUSTIN, tenure, effective October 1, 1989.

College of Veterinary Medicine

CARLOS G. COUTO, Department of Veterinary Clinical Sciences, promotion to Associate Professor with tenure, effective July 1, 1988.

DIANE GERKEN, Department of Veterinary Physiology and Pharmacology, promotion to Associate Professor with tenure, effective July 1, 1988.

SUSAN E. JOHNSON, Department of Veterinary Clinical Sciences, tenure, effective October 1, 1989.

Emeritus Titles

ANN L. LILLY, College of The Arts - Administration and Department of Dance, with the title Assistant Dean and Associate Professor Emeritus, effective July 1, 1988.

JAGDISH S. RUSTAGI, Department of Statistics, with the title Chairperson and Professor Emeritus, effective July 1, 1988.

MARION R. ALCH, School of Music, with the title Professor Emeritus, effective July 1, 1988.

WILLIAM P. BAKER, School of Music, with the title Professor Emeritus, effective July 1, 1988.

MARSHALL H. BARNES, School of Music, with the title Professor Emeritus, effective July 1, 1988.

HARRY L. BARR, Department of Dairy Science, with the title Professor Emeritus, effective July 1, 1988.

HARRISON M. GARDNER, Department of Veterinary Clinical Sciences, with the title Professor Emeritus, effective July 1, 1988.

June 2 and 3, 1988 meeting, Board of Trustees

PERSONNEL ACTIONS (contd)

Emeritus Titles (contd)

D. LYLE GOLEMAN, Department of Entomology, with the title Professor Emeritus, effective July 1, 1988.

GEORGE R. HADDAD, School of Music, with the title Professor Emeritus, effective July 1, 1988.

WILLIAM L. INGALLS, Department of Veterinary Preventive Medicine, with the title Professor Emeritus, effective July 1, 1988.

THEODORE B. MYERS, Department of Zoology (Marion Campus), with the title Professor Emeritus, effective August 1, 1988.

PAUL V. PETERSON, School of Journalism, with the title Professor Emeritus, effective September 1, 1988.

WILBUR A. RAPP, Academic Faculty of Finance, with the title Professor Emeritus, effective July 1, 1988.

CHARLES SALTZER, Department of Mathematics, with the title Professor Emeritus, effective September 1, 1988.

JOHN H. SHAW, Department of Physics, with the title Professor Emeritus, effective July 1, 1988.

RICHARD A. TYBOUT, Department of Economics, with the title Professor Emeritus, effective July 1, 1988.

CHARLES WENAR, Department of Psychology, with the title Professor Emeritus, effective July 1, 1988.

GORDON J. WILSON, School of Music, with the title Professor Emeritus, effective July 1, 1988.

JULIAN B. WOELFEL, College of Dentistry - Restorative & Prosthetic Dentistry, with the title Professor Emeritus, effective June 1, 1988.

ARNO CRONHEIM, Department of Mathematics, with the title Associate Professor Emeritus, effective July 1, 1988.

LOUISE B. GUTHMAN, Department of Dance, with the title Associate Professor Emeritus, effective July 1, 1988.

J. A. HUFF, School of Music, with the title Associate Professor Emeritus, effective July 1, 1988.

JOSEPH A. LEVEY, School of Music, with the title Associate Professor Emeritus, effective July 1, 1988.

RAYMOND A. SCHINDLER, Cooperative Extension Service, with the title Associate Professor Emeritus, effective June 1, 1988.

JOHN T. WYNNE, Department of Art, with the title Associate Professor Emeritus, effective July 1, 1988.

June 2 and 3, 1988 meeting, Board of Trustees

PERSONNEL ACTIONS (contd)

Emeritus Titles (contd)

DOUGLAS E. BROWN, College of Dentistry - Restorative & Prosthetic Dentistry, with the title Assistant Professor Emeritus, effective July 1, 1988.

ROBERT H. ESSMAN, Department of Molecular Genetics, with the title Assistant Professor Emeritus, effective July 1, 1988.

PATRICK M. EWING, Department of Mathematics (Mansfield Campus), with the title Assistant Professor Emeritus, effective July 1, 1988.

JOHN W. FERENCE, Cooperative Extension Service, with the title Assistant Professor Emeritus, effective July 1, 1988.

VERA L. HERMAN, Department of Geography, with the title Assistant Professor Emeritus, effective July 1, 1988.

ALDEN E. STILSON, JR., Department of Veterinary Anatomy, with the title Assistant Professor Emeritus, effective July 1, 1988.

Upon motion of Mr. Berry, seconded by Mr. Barone, the Board of Trustees adopted the foregoing resolution by unanimous roll call vote.

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RESOLUTIONS IN MEMORIAM

Resolution No. 88-138

Synopsis: Resolutions honoring the service of three of the University's faculty members who have recently died are being proposed.

RESOLVED, That the Board adopt the following Resolutions in Memoriam and that the President be requested to convey a copy to the families of the deceased.

Nicholas T. Bobrovnikoff

The Board of Trustees of The Ohio State University expresses its sorrow upon the death on March 21, 1988, of Nicholas T. Bobrovnikoff, Professor Emeritus in the Department of Astronomy and former Director of the Perkins Observatory.

Professor Bobrovnikoff was born in Starobielsk, near Kharkov in Ukrainia, in 1896. He graduated from the Institute of Mining Engineering in Petrograd in 1916. Russia was then engaged in World War I, and Bobrovnikoff immediately joined the Russian Army, in which he served as a junior officer until 1918. When Russia dropped out of the war in 1918, he entered the University of Kharkov, but after the Revolution occurred he joined General Denikin's White Army and fought against the Bolsheviks. Dr. Bobrovnikoff was wounded and suffered from frozen feet and typhus before Denikin's army collapsed in March 1920. By good fortune he was evacuated from the Crimea to Cyprus by a British warship.

June 2 and 3, 1988 meeting, Board of Trustees

RESOLUTIONS IN MEMORIAM (contd)

Nicholas T. Bobrovnikoff (contd)

After nearly starving, Dr. Bobrovnikoff made his way to Prague, where he studied astronomy, physics, and mathematics at the Charles University, graduating in 1924. He was able to come to the United States to do graduate work at Yerkes Observatory at the University of Chicago. There he developed his interest in the spectra of comets, the subject of his Ph.D. thesis in 1927.

Receiving the Martin Kellogg Post-graduate Fellowship at the Lick Observatory in California, Dr. Bobrovnikoff wrote an authoritative memoir on the motion of the tails of Halley's comet at its 1910 apparition.

Dr. Bobrovnikoff became an American citizen in 1930, and married Mildred Schairer, who had taught school on Mount Hamilton while he was there. That same year he was appointed assistant professor at the Perkins Observatory, then operated by Ohio Wesleyan University. The great depression was then at its worst and Professor Bobrovnikoff had to struggle to survive and obtain any funds for research. In 1933, he was named Acting Director of the Observatory, and with the cooperation of Professor Alpheus Smith of The Ohio State University Physics Department, he played a major part in arranging the agreement under which Ohio State and Ohio Wesleyan have since jointly operated the Perkins Observatory.

Professor Bobrovnikoff served as Director of the Observatory until 1952, and continued working at the University, except for several years on leave for defense work, until his retirement in 1966. Upon his retirement he was named Professor Emeritus.

In spite of his heavy load of administrative work, Professor Bobrovnikoff published about 75 research papers. The majority concerned cometary spectra, but he was also one of the pioneers in the study of molecules in stellar atmospheres. He contributed to the identification of the bands of the oxides of titanium, scandium and zirconium in stellar spectra. In his last years, Professor Bobrovnikoff did unique research on the history of physical observations of comets, and also published a book, Astronomy Before the Telescope, in 1984.

On behalf of the University, the Board of Trustees expresses to Professor Bobrovnikoff's three children its deep sympathy. It was directed that this resolution be inscribed upon the minutes of the Board of Trustees and that a copy be tendered to the family as an expression of the Board's heartfelt sympathy.

Paul G. Craig

The Board of Trustees of The Ohio State University expresses its sorrow upon the death on April 9, 1988, of Paul G. Craig, Professor Emeritus in the School of Public Administration.

A native of Middletown, Ohio, Dr. Craig received his bachelor's degree (1950) from Otterbein College and his master's (1951) and Ph.D. (1953) degrees in economics from The Ohio State University. He served as a faculty member from 1951 to 1970, advancing through the academic ranks from graduate assistant to professor, and again from 1972 until his

June 2 and 3, 1988 meeting, Board of Trustees

RESOLUTIONS IN MEMORIAM (contd)

Paul G. Craig (contd)

retirement in 1980. Professor Craig served as Chairperson of the Department of Economics, as the first Dean of the College of Social and Behavioral Sciences, and as the Chairperson of the Coordinating Council of Deans for the Colleges of the Arts and Sciences. He was Vice President for Academic Affairs at Florida State University from 1970-72.

During his career at Ohio State, Dr. Craig developed the business forecasting and managerial economics courses of the MBA and the Executive Development Programs of what is now the College of Business. He also created the public budgeting courses of the School of Public Administration. As a teacher, he was superb. Blessed with energy, enthusiasm, and curiosity, compounded with a provocative, analytical mind, leavened with wit and laughter, Paul Craig was indeed a master at the craft of teaching. His many students will long remember him with appreciation and delight.

As a departmental and decanal administrator, Professor Craig was innovative and effective. He left each organization he served better than he found it. As Chair, he rebuilt the Department of Economics. As Dean, he gave the newly-created College of Social and Behavioral Sciences form and a sense of unity. Paul Craig served his University in many other ways, as a member of the Faculty Council, Faculty Advisory Committee to the President and Board of Trustees, as President of the Faculty Club, and in numerous formal and informal roles both before and after his retirement. Upon his retirement in 1980, he was named Professor Emeritus. In recognition of his many contributions to Ohio State, he received its Distinguished Service Award in 1986.

Professor Craig was no closet economist. He was one of those who cross-walk the worlds of the university, business and government. He worked as a consultant in economic forecasting, regional analysis for banks, insurance companies and governments. His was a rare capacity for translating technical analysis into realistic counsel for corporate and public decision-making. He served many well and represented his University to the extramural community with efficiency, candor, vigor and uncommon wit. His many civic and professional activities were of like character and quality.

Paul Craig was a unique man who delighted his friends, stimulated his associates, and improved the institutions and agencies that he touched. This University is fortunate that he was for so many years a distinguished member of its faculty.

On behalf of the University community, the Board of Trustees expresses to the family of Paul G. Craig its deepest sympathy. It was directed that this resolution be inscribed upon the minutes of the Board of Trustees and that a copy be tendered to the family as an expression of the Board's heartfelt sympathy.

Delos D. Wickens

The Board of Trustees of The Ohio State University expresses its sorrow upon the death on April 9, 1988, of Delos D. Wickens, Professor Emeritus in the Department of Psychology.

June 2 and 3, 1988 meeting, Board of Trustees

RESOLUTIONS IN MEMORIAM (contd)

Delos D. Wickens (contd)

Professor Wickens was born on October 6, 1909, in Rochester, New York. He received his AB degree from Centre College of Kentucky in 1931, and his Masters and Ph.D. degrees from the University of North Carolina in 1937. He first came to The Ohio State University in 1937 and stayed until 1939, and then he returned in 1946 and remained on the faculty until his retirement in 1980. In addition, during this period of time he had various visiting research and professorial positions at Oberlin College, the University of Colorado, the University of Wisconsin, the University of California at Berkeley, Louisiana State University, and the University of Pennsylvania.

Professor Wickens's field was experimental psychology, and within that he specialized in the psychological processes underlying learning and memory. Following his retirement, he remained very actively involved in his research, and in addition to his appointment at The Ohio State University, he held appointments at Ohio Wesleyan University and Colorado State University.

Professor Wickens had a very distinguished career that was marked by well over 100 publications, including several books. In addition, his career was highlighted by his receiving a Distinguished Research Award from Ohio State University in 1980; a Distinguished Teaching Award from the American Psychological Association in 1979; the Howard Crosby Warren Medal of The Society of Experimental Psychologists for his outstanding research contributions; and in 1983 he was elected to Phi Beta Kappa. In addition, he was the presiding officer (President) of the Midwestern Psychological Association, both Divisions 1 and 3 of the American Psychological Association, the Psychonomics Society, the psychology section (J) of AAAS, and the Society of Experimental Psychologists.

On behalf of the University, the Board of Trustees expresses to the family its deep sympathy. It was directed that this resolution be inscribed upon the minutes of the Board of Trustees and that a copy be tendered to the family as an expression of the Board's heartfelt sympathy.

Upon motion of Mr. Wolf, seconded by Mr. Barone, the Board of Trustees adopted the foregoing resolution by unanimous voice vote.

President Jennings:

Mr. Chairman, Professor Paul G. Craig long-time member of the faculty and also served on the Investment Advisory Committee and Jim Nichols has asked to say a word about Professor Craig.

Mr. Nichols:

I think that many people on the campus are well aware of Dr. Craig's efforts on both the academic and administrative side of the University. I first came to know Professor Craig as a student here in the 1960's. I think it is less well-known, except among the Trustees, his efforts involving the investments and investments policies of the University. When I came as Treasurer nearly seven years ago, he had already spent about three years serving on the Investment Committee of the

June 2 and 3, 1988 meeting, Board of Trustees

RESOLUTIONS IN MEMORIAM (contd)

Mr. Nichols: (contd)

University, which includes the Fiscal Affairs Committee of the Board. During those nearly seven years, he always made himself available to attend meetings. Some years there were maybe only two or three years, other years there were maybe monthly meetings. He was always available for consultation and on his professor side -- his academic side he would send me articles from time-to-time of research and suggest that perhaps I should look at these and see if it may not help me in terms of the investments of the University. He was always willing to give us his frank opinion in the meetings. Sometimes they were controversial, I know, but they were always interesting to listen to and discuss with Dr. Craig.

I believe, in the process of developing the University's Investment Policy some years ago, and about four years ago developing on our Income Distribution Policy, as well as our ongoing issues with various investments and debt related issues that he was always helpful. I will miss him personally in his counsel, and I am sure that that is true of all of the Trustees that have had an opportunity to work with him. Mr. President, I appreciate the opportunity to put that into the public record, a part of Dr. Craig that the general public is not aware of.

President Jennings:

Thank you, Jim. Those are very kind words and he will be missed.

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REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS

Resolution No. 88-139

Synopsis: The reports on contracts, grants, and gifts and the summary for April 1988 are presented for Board acceptance.

WHEREAS monies are solicited and received on behalf of the University from governmental, industrial, other agencies, alumni, and various individuals in support of research, instructional activities, and service; and

WHEREAS such gifts and grants are received through The Ohio State University Research Foundation, the Engineering Experiment Station of The Ohio State University, and The Ohio State University Development Fund:

NOW THEREFORE

BE IT RESOLVED, That the research agreement between The Ohio State University and The Ohio State University Research Foundation for the contracts and grants reported herein, and the acceptance of the reports from the Engineering Experiment Station and The Ohio State University Development Fund during the month of April 1988 be approved.

June 2 and 3, 1988 meeting, Board of Trustees

REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)

Upon motion of Mr. Wolf, seconded by Mr. Barone, the Board of Trustees adopted the foregoing resolution by unanimous voice vote.

President Jennings:

I think that it is instructive to note that several months ago we signed several contracts with the State and the Honda Corporation and on this month's acceptance of Research Grants is \$6 million from the Honda Corporation, that money has come in now. That endowment was for the College of Engineering should be expanded as the years go by, in terms, of increasing the funds from the operation of the Transportation Research Center.

SUMMARY FOR APRIL 1988

Source	No. of Projects	Support Level
The Ohio State University Research Foundation	116	\$7,466,789.04
Engineering Experiment Station	41	\$ 670,517.00
Total	157	\$8,137,306.04

The Ohio State University Development Fund

Establishment of Named Funds

Transportation Research Fund (Honda) (Administered by the College of Engineering for research in automotive, vehicular, and related forms of transportation)	\$6,000,000.00
John H. McConnell Endowment Fund for the Cancer Research Institute (To support cancer research)	\$ 97,750.00
The Ohio State University Marion Campus Theodore B. Myers Scholarship Endowment (Scholarships - Marion Campus)	\$ 15,000.00
The Papich Family Endowment Fund (Financial support for students doing research of Slavic manuscripts)	\$ 5,100.00

Change of Name and Description of Named Funds

From: The Phi Kappa Phi OSU Chapter Scholarship Fund	
To: The Phi Kappa Phi Ohio State University Chapter Scholarship Fund	
From: William F. Green Fund for Fellows and Scholars	
To: William Green Memorial Fund	

June 2 and 3, 1988 meeting, Board of Trustees

REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)

SUMMARY FOR APRIL 1988 (contd)

The Ohio State University Development Fund (contd)

Change of Name and Description of Named Funds (contd)

From: Mildred S. and Noel F. George Chair in Law Fund
To: Noel F. George, Baker & Hostetler Chair in Law Fund

Change in Name of Fund

From: The Noel F. George - Baker & Hostetler Law Library Fund
To: The Baker & Hostetler Law Library and Building Fund

Change in Description of Named Fund

The Henry G. Cramblett Fund in Medicine

Change in Description of Named Professorship

Ernst & Whinney Professorship in Accounting

June 2 and 3, 1988 meeting, Board of Trustees

REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)

THE OHIO STATE UNIVERSITY RESEARCH FOUNDATION

Report - April 1988

Federal Research Contracts/Grants

\$278,452.00 - Department of Health and Human Services, Public Health Service, National Institutes of Health, Bethesda, Maryland, Southwest Oncology Group, Department of Internal Medicine (S. P. Balcerzak), 1 January 1988 through 31 December 1988. (Project 761094 - Continuation)

\$255,470.00 - Department of Health and Human Services, Public Health Service, Center for Disease Control, Atlanta, Georgia, Development of a Multisized Hybrid III Dummy, Department of Mechanical Engineering (R. L. Stalnaker), 1 April 1988 through 31 March 1989. (Project 765973 - Continuation)

\$220,845.00 - Department of Health and Human Services, Public Health Service, National Institutes of Health, Bethesda, Maryland, Endotracheal Suctioning in Acutely Ill Adults, Department of Life Span Process (K. S. Stone), 1 April 1988 through 31 March 1989. (Project 765998 - Continuation)

\$175,000.00 - International Development Cooperation Agency, Agency for International Development, Washington, D.C., Improvement of Savings and Credit Services by Rural Financial Institutions in Developing Countries, Department of Agricultural Economics and Rural Sociology (C. Gonzalez-Vega and R. L. Meyer), 1 January 1988 through 31 October 1988. (Project 763301 - Continuation)

\$173,685.00 - Department of Health and Human Services, Public Health Service, National Institutes of Health, Bethesda, Maryland, Interval Training and Cancer Patients' Functional Capacity, Department of Family and Community Nursing (M. G. MacVicar), 15 April 1988 through 14 April 1989. (Project 766682 - New)

\$166,973.00 - Department of Health and Human Services, Public Health Service, National Institutes of Health, Bethesda, Maryland, Biomedical Research Support Grant, College of Medicine - Administration (D. G. Cornwell), 1 April 1988 through 31 March 1989. (Project 761078 - Continuation)

\$166,084.00 - Department of Health and Human Services, Public Health Service, National Institutes of Health, Bethesda, Maryland, Neoplastic Transformation of Human Epithelial Cells, Department of Physiological Chemistry (G. E. Milo), Comprehensive Cancer Center and Department of Microbiology (B. S. Zwilling), and Diagnostic Services (C. F. Shuler), 1 April 1988 through 31 March 1989. (Project 761756 - Continuation)

\$166,051.00 - Department of Health and Human Services, Public Health Service, National Institutes of Health, Bethesda, Maryland, Oncology Training Grant, Department of Internal Medicine (S. P. Balcerzak), 1 July 1988 through 30 June 1989. (Project 761160 - Continuation)

\$162,703.00 - Department of Health and Human Services, Public Health Service, National Institutes of Health, Bethesda, Maryland, The Molecular

June 2 and 3, 1988 meeting, Board of Trustees

REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)

THE OHIO STATE UNIVERSITY RESEARCH FOUNDATION (contd)

Federal Research Contracts/Grants (contd)

Biology of Organellar Translocation, Department of Molecular Genetics (B. R. Oakley) and Department of Microbiology (D. R. Galloway), 1 April 1988 through 31 March 1989. (Project 763502 - Continuation)

\$147,444.00 - National Science Foundation, Washington, D.C., Ship-to-Shore Seismic Refraction Investigation of the Lithospheric Structure of the Transantarctic Mountain Front, Byrd Polar Research Center and Department of Geology and Mineralogy (R. R. B. Von Frese), 1 July 1988 through 30 June 1989. (Project 766709 - New)

\$146,568.00 - National Science Foundation, Washington, D.C., Completion of Velocity Survey of Ice Stream B and Catchments of Ice Streams B and C, Byrd Polar Research Center and Department of Geology and Mineralogy (I. M. Whillans), 15 April 1988 through 31 March 1989. (Project 766672 - New)

\$144,258.00 - Department of Health and Human Services, Public Health Service, National Institutes of Health, Bethesda, Maryland, Biomedical Research Support Grant, Research and Graduate Studies Administration (T. L. Sweeney), 1 April 1988 through 31 March 1989. (Project 764748 - Continuation)

\$140,255.00 - Department of Energy, Argonne, Illinois, Investigations of Ultrasonic Wave Interactions at Boundaries Separating Anisotropic Materials, Department of Welding Engineering (L. Adler), 1 April 1988 through 31 March 1989. (Project 764033 - Continuation)

\$135,080.00 - Department of Health and Human Services, Public Health Service, National Institutes of Health, Bethesda, Maryland, Lipids Controlling S. aureus Survival In Vivo, Department of Microbiology and Immunology (F. A. Kapral), 1 April 1988 through 31 March 1989. (Project 763912 - Continuation)

\$130,408.00 - National Science Foundation, Washington, D.C., A Cooperative Paleoclimatic Study of the Dundee Ice Cap and Its Relationship to Global Climatic Variability, Byrd Polar Research Center (L. G. Thompson and E. Mosley-Thompson), 1 May 1988 through 30 April 1989. (Project 765310 - Continuation)

\$116,500.00 - National Science Foundation, Washington, D.C., Fourier Transform Ion Cyclotron Resonance Mass Spectrometry: Techniques Development and Non-Biological Application, Chemical Instrumentation Center, Department of Chemistry and Department of Biochemistry (A. G. Marshall), 15 April 1988 through 30 September 1989. (Project 766684 - New)

\$107,800.00 - National Science Foundation, Washington, D.C., Studies Involving Molecules and Intermediates of Theoretical Interest, Department of Chemistry (L. A. Paquette), 1 September 1988 through 31 August 1989. (Project 766349 - Continuation)

\$107,587.00 - Department of Health and Human Services, Public Health Service, Health Resources and Services Administration, Rockville,

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REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)

THE OHIO STATE UNIVERSITY RESEARCH FOUNDATION (contd)

Federal Research Contracts/Grants (contd)

Maryland, Predoctoral Training Grant, Department of Family Medicine (P. J. Fahey), 1 July 1988 through 30 June 1989. (Project 765400 - Continuation)

\$104,836.00 - Department of Health and Human Services, Public Health Service, National Institutes of Health, Bethesda, Maryland, Synthesis of Biologically Active Alkaloids, Department of Chemistry (D. J. Hart), 1 April 1988 through 31 March 1989. (Project 762083 - Continuation)

\$99,376.00 - Department of Health and Human Services, Public Health Service, National Institutes of Health, Bethesda, Maryland, Hypertension and Congestive Heart Failure: Genetic Model, Department of Food Science and Nutrition - OARDC and Department of Food Science and Nutrition (S. A. McCune), 1 December 1987 through 30 November 1988. (Project 766383 - Continuation)

\$95,000.00 - Department of Transportation, National Highway Traffic Safety Administration, East Liberty, Ohio, Unified Head Injury Theory, Department of Mechanical Engineering (R. L. Stalnaker), 1 January 1988 through 31 December 1988. (Project 764510 - Continuation)

\$94,542.00 - Department of the Army, Army Research Office, Research Triangle Park, North Carolina, A Fundamental Investigation into the Joining of Advanced Light Materials, Department of Welding Engineering (W. A. Baeslack III), 1 April 1988 through 31 March 1989. (Project 766676 - New)

\$94,115.00 - Department of Health and Human Services, Public Health Service, National Institutes of Health, Bethesda, Maryland, Function of the Enteric Nervous System, Department of Physiology (J. D. Wood), 1 May 1988 through 30 April 1989. (Project 765012 - Continuation)

\$93,700.00 - National Science Foundation, Washington, D.C., The Chemistry and Electrochemistry of Hot Corrosion of Metals, Department of Metallurgical Engineering (R. A. Rapp), 1 August 1988 through 31 July 1989. (Project 766299 - Continuation)

\$90,562.00 - Department of Health and Human Services, Public Health Service, National Institutes of Health, Bethesda, Maryland, Professional Nurse Traineeship Program, Department of Family and Community Nursing (E. M. Menke), 1 July 1988 through 30 June 1989. (Project 760803 - Continuation)

\$86,471.00 - Department of Health and Human Services, Public Health Service, National Institutes of Health, Bethesda, Maryland, Immunochemical Analysis of Exotoxin A from Pseudomonas aeruginosa, Department of Microbiology (D. R. Galloway), 1 April 1988 through 31 March 1989. (Project 765322 - Continuation)

\$82,142.00 - Department of the Navy, Office of Naval Research, Arlington, Virginia, Precomplexation and Activation of Carbohydrate Phosphate

June 2 and 3, 1988 meeting, Board of Trustees

REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)

THE OHIO STATE UNIVERSITY RESEARCH FOUNDATION (contd)

Federal Research Contracts/Grants (contd)

Esters, Department of Chemistry (A. W. Czarnik), 1 March 1988 through 28 February 1989. (Project 766706 - New)

\$81,300.00 - National Science Foundation, Washington, D.C., Plastic Instability and Fracture in Steels, Department of Metallurgical Engineering (J. P. Hirth), 1 April 1988 through 31 March 1989. (Project 763970 - Continuation)

\$79,763.00 - National Science Foundation, Washington, D.C., Paleobotany in Antarctica: Paleozoic and Mesozoic, Byrd Polar Research Center and Department of Botany (T. N. Taylor) and Byrd Polar Research Center (E. L. Taylor), 1 May 1988 through 30 April 1989. (Project 765819 - Continuation)

\$79,341.00 - Department of Agriculture, Animal and Plant Health Inspection Service, Hyattsville, Maryland, Evaluation of Economic and Epidemiologic Data from the National Animal Health Monitoring System (NAHMS): Identifying Bacterial Agents Associated with Bovine Mastitis and Special Studies with the NAHMS Core for Mastitis in Dairy Cattle, Department of Veterinary Preventive Medicine (G. Y. Miller), 1 January 1988 through 30 September 1988. (Project 766673 - New)

\$78,759.00 - Department of Health and Human Services, Public Health Service, National Institutes of Health, Bethesda, Maryland, Mediastinal Effects on Pulmonary Function, Department of Veterinary Physiology and Pharmacology (L. E. Olson), 1 April 1988 through 31 March 1989. (Project 765986 - Continuation)

\$78,077.00 - Department of Health and Human Services, Public Health Service, National Institutes of Health, Bethesda, Maryland, Conformational and Electrostatic Effects in Plastocyanin, Department of Biochemistry (E. L. Gross), 1 April 1988 through 31 March 1989. (Project 765991 - Continuation)

\$70,108.00 - National Aeronautics and Space Administration, Lewis Research Center, Cleveland, Ohio, A Novel Approach in Formulation of Special Transition Finite Elements, Department of Aeronautical and Astronautical Engineering (N. Sarigul), 13 April 1988 through 12 April 1989. (Project 765939 - Continuation)

\$70,000.00 - Department of Commerce, National Bureau of Standards, Gaithersburg, Maryland, Physical and Mechanical Properties of Composite Materials, Department of Metallurgical Engineering (R. H. Wagoner, J. P. Hirth and V. K. Tewary), 6 February 1988 through 5 February 1989. (Project 766671 - New)

\$67,380.00 - Department of Health and Human Services, Public Health Service, National Institutes of Health, Bethesda, Maryland, A Study of Ionic Channels in Rat Pituitary Somatotrophs, Department of Pharmacology (J. J. Enyeart), 1 May 1988 through 30 April 1989. (Project 766691 - New)

June 2 and 3, 1988 meeting, Board of Trustees

REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)

THE OHIO STATE UNIVERSITY RESEARCH FOUNDATION (contd)

Federal Research Contracts/Grants (contd)

\$66,376.00 - National Aeronautics and Space Administration, Lewis Research Center, Cleveland, Ohio, An Experimental Study of Shock-Boundary Layer Interaction in Hypersonic Flow, Department of Aeronautical and Astronautical Engineering (J. D. Lee and M. B. Bragg), 16 April 1988 through 3 September 1988. (Project 765240 - Continuation)

\$61,949.00 - Department of Health and Human Services, Public Health Service, National Institutes of Health, Bethesda, Maryland, Biomechanics of the Amphibian Middle Ear, Department of Zoology (T. E. Hetherington), 1 April 1988 through 31 March 1989. (Project 764599 - Continuation)

\$56,953.00 - National Science Foundation, Washington, D.C., Relativistic Optical Model at Intermediate Energies, Department of Physics (B. C. Clark), 1 July 1988 through 31 December 1989. (Project 765350 - Continuation)

\$55,573.00 - Department of Defense, Maryland Procurement Office, Fort George G. Meade, Maryland, Microwave Antenna Technology, Department of Electrical Engineering, ElectroScience Laboratory (R. C. Rudduck), 1 March 1988 through 31 July 1988. (Project 765096 - Continuation)

\$51,216.00 - Department of the Navy, Office of Naval Research, Arlington, Virginia, Degradation of Materials by Interdiffusion Processes, Department of Metallurgical Engineering (J. P. Hirth), 1 December 1987 through 30 November 1988. (Project 764574 - Continuation)

\$50,000.00 - National Science Foundation, Washington, D.C., Synthetic Catalysts Based on Reversible Covalent Bond Formation, Department of Chemistry (A. W. Czarnik), 1 March 1988 through 31 August 1989. (Project 765171 - Continuation)

\$50,000.00 - Department of the Navy, Office of Naval Research, Arlington, Virginia, Processing of Archaeobacterial Intron-Containing tRNA Gene Transcripts, Department of Microbiology (C. J. Daniels), 1 August 1988 through 31 July 1989. (Project 765591 - Continuation)

\$45,000.00 - Department of Education, Office of Postsecondary Education, Washington, D.C., The Ohio State-Purdue Russian Language Program at the Pushkin Institute in Moscow, USSR, Department of Slavic and East European Languages and Literatures (F. R. Silbajoris), 1 August 1988 through 31 July 1989. (Project 766697 - New)

\$44,975.00 - National Science Foundation, Washington, D.C., Field Theoretic Models of Nuclear and Subnuclear Systems, Department of Physics (R. J. Perry), 15 March 1988 through 31 August 1989. (Project 766657 - New)

\$40,249.00 - Department of Health and Human Services, Public Health Service, National Institutes of Health, Bethesda, Maryland, Gustatory Afferent Organization in the Solitary Nucleus, Oral Biology (S. P. Travers), 1 April 1988 through 31 August 1988. (Project 765694 - Continuation)

June 2 and 3, 1988 meeting, Board of Trustees

REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)

THE OHIO STATE UNIVERSITY RESEARCH FOUNDATION (contd)

Federal Research Contracts/Grants (contd)

\$39,000.00 - National Science Foundation, Washington, D.C., Integrable Systems in Nonlinear Dispersionless Wave Equations: The Dispersionless Kadomtsev-Petviashvili Equation, Department of Mathematics (Y. Kodama), 1 June 1988 through 30 November 1990. (Project 766685 - New)

\$36,876.00 - Department of the Army, Army Materiel Command, Fort Belvoir, Virginia, Application of Borehole Geophysics to Locating Tunnels, Department of Geology and Mineralogy (J. J. Daniels), 1 April 1988 through 30 September 1988. (Project 766708 - New)

\$36,601.00 - Department of Health and Human Services, Public Health Service, National Institutes of Health, Bethesda, Maryland, Syntactic and Interpretive Processes in Coreference, Department of Linguistics (R. W. Cowart), 1 March 1988 through 28 February 1989. (Project 765967 - Continuation)

\$36,500.00 - National Science Foundation, Washington, D.C., Analysis of a New Wound-Related Cell Wall Protein in Carrot, Biotechnology Programs and Department of Agronomy (M. L. Tierney), 15 March 1988 through 28 February 1989. (Project 766680 - New)

\$34,071.00 - Department of Health and Human Services, Public Health Service, National Institute of Alcohol, Drug Abuse and Mental Health Administration, Bethesda, Maryland, Numerical Competence in the Chimpanzee (*Pan troglodytes*), Department of Psychology (J. C. Naylor and S. T. Boysen), 1 April 1988 through 31 March 1989. (Project 766584 - New)

\$31,893.00 - National Aeronautics and Space Administration, Ames Research Center, Moffett Field, California, Computational Study of the Jet-in-the-Ground-Effect Flow with Dynamically Adaptive Grid, Department of Mechanical Engineering (S. Nakamura), 21 March 1988 through 20 March 1989. (Project 766675 - New)

\$31,030.00 - Department of Health and Human Services, Public Health Service, National Institutes of Health, Bethesda, Maryland, Biomedical Research Support Grant, College of Pharmacy (A. H. Soloway), 1 April 1988 through 31 March 1989. (Project 760661 - Continuation)

\$30,610.00 - National Science Foundation, Washington, D.C., The Ohio State University Young Scholar Program, Department of Chemistry (M. H. Klapper) and College of Biological Sciences - Administration (A. Ackermann-Brown), 15 February 1988 through 31 January 1990. (Project 766663 - New)

\$30,000.00 - Department of Energy, Morgantown Energy Technology Center, Morgantown, West Virginia, Development of a Generalized Hydraulic Fracture Model, Department of Engineering Mechanics (S. H. Advani and J. K. Lee), 1 March 1988 through 1 December 1988. (Project 763827 - Continuation)

\$28,773.00 - National Science Foundation, Washington, D.C., Conference on the Future of the National Longitudinal Surveys of Labor Market

June 2 and 3, 1988 meeting, Board of Trustees

REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)

THE OHIO STATE UNIVERSITY RESEARCH FOUNDATION (contd)

Federal Research Contracts/Grants (contd)

Experience, Center for Human Resource Research (R. J. Olsen), 15 April 1988 through 31 March 1989. (Project 766702 - New)

\$27,785.00 - National Science Foundation, Washington, D.C., Target Interception by Sonar in the Big Brown Bat, Eptesicus fuscus, Department of Zoology (W. M. Masters), 1 May 1988 through 30 April 1989. (Project 765902 - Continuation)

\$25,000.00 - Department of the Navy, Naval Material Command, Bethesda, Maryland, Vortex Motion Past a Cavity with Elastic Obstructions, Department of Mechanical Engineering (A. T. Conlisk), 7 April 1987 through 6 April 1989. (Project 765323 - Continuation)

\$25,000.00 - Department of the Navy, Office of Naval Research, Arlington, Virginia, Numerical Computation of Scattering Frequencies, Department of Mathematics (G. Majda), 1 May 1988 through 30 April 1989. (Project 766693 - New)

\$24,875.00 - Department of Health and Human Services, Public Health Service, National Institutes of Health, Bethesda, Maryland, Biomedical Research Support Grant, College of Veterinary Medicine - Administration (R. A. Wright), 1 April 1988 through 31 March 1989. (Project 762776 - Continuation)

\$24,300.00 - National Science Foundation, Washington, D.C., Quasicrystals and Superfluid Helium, Department of Physics (T. L. Ho), 1 March 1988 through 31 May 1989. (Project 766683 - New)

\$21,358.00 - Department of Health and Human Services, Public Health Service, Center for Disease Control, Atlanta, Georgia, Disorders of Reproduction Among Female Veterinarians, Department of Preventive Medicine (J. R. Wilkins III), 1 May 1988 through 30 April 1989. (Project 766067 - Continuation)

\$19,000.00 - National Science Foundation, Washington, D.C., Traveling Wave Solutions of Reaction Diffusion Systems, Department of Mathematics (D. Terman), 1 December 1988 through 30 November 1989. (Project 766089 - Continuation)

\$18,450.00 - National Science Foundation, Washington, D.C., Cohomology of Arithmetic Groups, Department of Mathematics (A. D. Ash), 1 December 1988 through 30 November 1989. (Project 766269 - Continuation)

\$17,000.00 - Department of Transportation, National Highway Traffic Safety Administration, East Liberty, Ohio, Omnidirectional Dummy Head and Neck, Department of Mechanical Engineering (R. L. Stalnaker), 1 January 1988 through 31 December 1988. (Project 763945 - Continuation)

\$14,630.00 - Department of Agriculture, Science and Education, Peoria, Illinois, Cooperative Agricultural Research, Office of the Director - OARDC (H. R. Conrad and R. F. Edwards), 1 October 1987 through 30 September 1988. (Project 766472 - Continuation)

June 2 and 3, 1988 meeting, Board of Trustees

REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)

THE OHIO STATE UNIVERSITY RESEARCH FOUNDATION (contd)

Federal Research Contracts/Grants (contd)

\$14,087.00 - Department of Health and Human Services, Public Health Service, National Institutes of Health, Bethesda, Maryland, Biomedical Research Support Grant, College of Dentistry - Administration (W. R. Wallace), 1 April 1988 through 31 March 1989. (Project 764652 - Continuation)

\$13,044.00 - Department of Health and Human Services, Public Health Service, National Institutes of Health, Bethesda, Maryland, Short-Term Training, Oral Biology (S. Rosen), 1 June 1988 through 31 May 1989. (Project 764680 - Continuation)

\$10,990.00 - Department of Health and Human Services, Public Health Service, National Institutes of Health, Bethesda, Maryland, Biomedical Research Support Grant, College of Optometry (F. W. Hebbard), 1 April 1988 through 31 March 1989. (Project 765317 - Continuation)

\$8,795.00 - National Science Foundation, Washington, D.C., Lithospheric Analysis of Regional Antarctic Gravity and Magnetic Anomalies, Byrd Polar Research Center and Department of Geology and Mineralogy (R. R. B. Von Frese), 1 April 1988 through 31 March 1989. (Project 764662 - Continuation)

\$5,474.00 - National Science Foundation, Washington, D.C., Cooperative Research on Bulk Solids Interaction with Hopper Silos During Gravity Flow, Department of Civil Engineering (A. G. Bishara), 15 March 1988 through 31 August 1990. (Project 766655 - New)

\$5,000.00 - Department of the Army, Army Research Office, Research Triangle Park, North Carolina, Almost Everywhere Convergence in Probability and Ergodic Theory, Department of Mathematics (L. Sucheston), 4 April 1988 through 3 April 1989. (Project 766696 - New)

\$3,440.00 - Department of Health and Human Services, Public Health Service, National Institutes of Health, Bethesda, Maryland, Oncology Training Grant, Department of Internal Medicine (S. P. Balcerzak), 1 July 1987 through 30 June 1988. (Project 761160 - Continuation)

\$3,150.00 - National Science Foundation, Washington, D.C., The Role of α -Lactalbumin in Lactose Biosynthesis, Department of Chemistry (L. J. Berliner), 1 November 1987 through 30 April 1989. (Project 766469 - Continuation)

\$3,000.00 - Department of Agriculture, Economic Research Service, Washington, D.C., Ethanol Production in Brazil: Understanding Linkages and Public Policy Impacts, Department of Agricultural Economics and Rural Sociology - OARDC and Department of Agricultural Economics and Rural Sociology (N. Rask), 27 September 1987 through 30 September 1988. (Project 766674 - New)

June 2 and 3, 1988 meeting, Board of Trustees

REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)

THE OHIO STATE UNIVERSITY RESEARCH FOUNDATION (contd)

Federal Research Contracts/Grants (contd)

Equipment - Department of Energy, Argonne, Illinois, Energy-Related Laboratory Equipment, Engineering Experiment Station (J. W. Talnagi), 1 April 1988 through 31 March 1989. (Project 766677 - New)

TOTAL - FEDERAL AWARDS \$5,528,658.00

State of Ohio Research Contracts/Grants

\$15,000.00 - State of Ohio, Department of Human Services, Columbus, Ohio, Master Parenting, Cooperative Extension Field Operations (J. C. Graham), 1 April 1988 through 31 March 1989. (Project 766052 - Continuation)

\$12,497.00 - State of Ohio, Department of Human Services, Columbus, Ohio, Special Parenting Project, Cooperative Extension Field Operations (B. J. Wurzel), 1 April 1988 through 31 March 1989. (Project 765319 - Continuation)

\$11,000.00 - State of Ohio, Department of Human Services, Columbus, Ohio, Mentor Mothers Program, Cooperative Extension Field Operations (W. D. Harris), 1 April 1988 through 31 March 1989. (Project 766679 - New)

\$8,544.00 - State of Ohio, Department of Human Services, Columbus, Ohio, Building Family Strengths, Cooperative Extension Field Operations (B. J. Gilbert), 1 April 1988 through 31 March 1989. (Project 766678 - New)

\$1,838.00 - State of Ohio, Department of Natural Resources, Columbus, Ohio, Primary Productivity Dynamics of a Coastal Freshwater Estuary on Lake Erie, Department of Natural Resources - OARDC and School of Natural Resources (W. J. Mitsch), 1 February 1988 through 1 June 1989. (Project 766591 - New)

\$1,000.00 - State of Ohio, Department of Natural Resources, Columbus, Ohio, Studies on the Biology of the Bigeye Chub, Hybopsis amblops, Department of Zoology (T. M. Cavender), 30 March 1988 through 1 June 1989. (Project 766701 - New)

\$950.00 - State of Ohio, Department of Natural Resources, Columbus, Ohio, Life History of the Northern Madtom, Noturus stigmosus, Department of Zoology (T. M. Cavender), 30 March 1988 through 1 June 1989. (Project 766700 - New)

TOTAL - STATE OF OHIO AWARDS \$ 50,829.00

Industrial Research Contracts/Grants

\$311,592.00 - Pfizer, Inc., Groton, Connecticut, Phase I Double-Blind, Placebo-Controlled, Escalating Multiple Dose Pharmacokinetic and Tolerant Study of Oral CP-66,948 in Normal Male Volunteers, Department of Pharmacology (N. Gerber), 1 January 1988 through 31 December 1988. (Project 765696 - Continuation)

June 2 and 3, 1988 meeting, Board of Trustees

REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)

THE OHIO STATE UNIVERSITY RESEARCH FOUNDATION (contd)

Industrial Research Contracts/Grants (contd)

\$175,376.00 - Pfizer, Inc., Groton, Connecticut, A Phase I Study to Evaluate the Dose Relationship of the Uricosuric Activity of Single Doses of CP-73,850 and to Compare the Activity of CP-73,850 to a Single Dose of Probenecid, Department of Pharmacology (N. Gerber), 1 January 1988 through 31 December 1988. (Project 765696 - Continuation)

\$154,757.16 - Rosemount, Inc., Burnsville, Minnesota, Advanced Radar Cross Section Measurements, Department of Electrical Engineering, ElectroScience Laboratory (J. D. Young), 1 March 1988 through 28 February 1989. (Project 766668 - New)

\$129,520.00 - Pfizer, Inc., Groton, Connecticut, A Phase I Multiple Dose, Double-Blind, Placebo-Controlled Study of the Safety, Toleration, and Pharmacokinetics of CP-68,772 in Healthy Male Volunteers, Department of Pharmacology (N. Gerber), 1 April 1988 through 31 March 1989. (Project 765696 - Continuation)

\$104,937.00 - Rockwell International, Los Angeles, California, Extended Radar Cross Section Studies, Department of Electrical Engineering, ElectroScience Laboratory (L. Peters, Jr., W. D. Burnside, B. A. Munk, and L. W. Henderson), 1 November 1987 through 30 September 1988. (Project 766480 - Continuation)

\$100,055.00 - Systems Research Laboratories, Inc., Dayton, Ohio, Single Channel Short-Pulse Transceiver System, Department of Electrical Engineering, ElectroScience Laboratory (W. D. Burnside), 15 January 1988

\$73,580.00 - American Cyanamid Company, Pearl River, New York, A Double-Blind, Parallel Group, Dose Response Study Comparing the Efficacy and Safety of 2.5 mg, 10 mg, and 40 mg Bisoprolol to Placebo Given Once Daily (After a Placebo Run-in Phase) in Patients with Stable Angina Pectoris Due to Coronary Heart Disease, Department of Internal Medicine (D. B. Van Fossen), 1 March 1988 through 31 August 1989. (Project 766705 - New)

\$72,107.55 - Rosemount, Inc., Burnsville, Minnesota, Moment Method Scattering Analysis of Absorber-Coated 2D Bodies, Department of Electrical Engineering, ElectroScience Laboratory (E. H. Newman), 1 March 1988 through 28 February 1989. (Project 766666 - New)

\$50,201.33 - Rosemount, Inc., Burnsville, Minnesota, Moment Method Scattering Analysis of Absorber-Coated 2D Bodies, Department of Electrical Engineering, ElectroScience Laboratory (J. D. Young), 1 March 1988 through 28 February 1989. (Project 766667 - New)

\$25,220.00 - Apple Computer, Inc., Cupertino, California, Exploring the Thinking Processes Engaged Across Writing Activities in the Apple Classroom of Tomorrow in West High School, Columbus, Ohio, Department of Education Theory and Practice (R. J. Tierney), 1 November 1987 through 31 August 1988. (Project 766687 - Continuation)

June 2 and 3, 1988 meeting, Board of Trustees

REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)

THE OHIO STATE UNIVERSITY RESEARCH FOUNDATION (contd)

Industrial Research Contracts/Grants (contd)

\$25,000.00 - General Electric Company, Schenectady, New York, Ultrahigh Temperature Composite Materials and Process Screening, Department of Ceramic Engineering (E. R. Kreidler), 1 January 1988 through 30 September 1988. (Project 765952 - Continuation)

\$24,088.00 - Joint Medical Products, Stamford, Connecticut, Initial Fixation of Threaded Acetabular Cups, Department of Surgery (A. S. Litsky), 1 April 1988 through 31 March 1989. (Project 766669 - New)

\$22,935.00 - Knoll Pharmaceuticals, Whippany, New Jersey, Isoptin®SR V-96-SR Study, Department of Family Medicine (R. M. Guthrie) and Department of Pharmacology (N. Gerber), 1 March 1988 through 30 September 1988. (Project 765696 - Continuation)

\$10,040.00 - The Lubrizol Corporation, Wickliffe, Ohio, The Relative Effects of Diets Containing High-oleic Sunflower Oil, Corn Oil, or Butter on Serum Lipids in Men, School of Allied Medical Professions (G. M. Wardlaw) and Department of Human Nutrition and Food Management (J. T. Snook), 1 September 1987 through 31 August 1988. (Project 766293 - Continuation)

\$8,149.00 - Pfizer, Inc., Groton, Connecticut, Phase I Double-Blind, Placebo-Controlled, Escalating Single and Divided Dose Pharmacokinetic and Toleration Study of Oral CP-76,593 in Normal Male Volunteers, Department of Pharmacology (N. Gerber), 1 July 1987 through 30 June 1988. (Project 765696 - Continuation)

\$4,275.00 - Motorola, Inc., Schaumburg, Illinois, MTEC Senior Executive Program -- Technical Writing Assistance, The National Center for Research in Vocational Education (R. D. Ryan), 4 March 1988 through 31 May 1988. (Project 766681 - New)

\$2,900.00 - Kemin Industries, Inc., Des Moines, Iowa, The Vitamin E Sparing Effects of Several Antioxidants, Department of Poultry Science - OARDC and Department of Poultry Science (J. D. Latshaw), 1 April 1988 through 31 May 1988. (Project 766620 - Continuation)

\$2,288.00 - Bennett and Williams, Inc., Columbus, Ohio, Grass Pollen Count Analysis, Byrd Polar Research Center and Department of Zoology (P. A. Colinvaux) and Byrd Polar Research Center (W. R. Eisner), 2 March 1988 through 30 September 1988. (Project 766698 - New)

TOTAL - INDUSTRIAL AWARDS

\$1,297,021.04

Other Non-Federal Research Contracts/Grants

\$121,800.00 - University of Pennsylvania, Philadelphia, Pennsylvania, Conducting Electronic Polymers by Non-Redox Processes Synthesis, Physical Studies and Application, Department of Physics (A. J. Epstein), 1 March 1987 through 31 May 1988. (Project 765670 - Continuation)

June 2 and 3, 1988 meeting, Board of Trustees

REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)

THE OHIO STATE UNIVERSITY RESEARCH FOUNDATION (contd)

Other Non-Federal Research Contracts/Grants (contd)

\$91,556.00 - Muscular Dystrophy Association, New York, New York, Collaborative Investigation of Duchenne Dystrophy, Department of Neurology (J. R. Mendell), 1 March 1988 through 28 February 1989. (Project 761360 - Continuation)

\$66,571.00 - Midwest Research Institute, Golden, Colorado, Immobilization of Xylose Isomerase from Escherichia coli, Department of Biochemistry (G. E. Means), 1 May 1988 through 31 July 1989. (Project 766688 - New)

\$53,936.00 - University of Texas, Houston, Texas, Evaluation of Home Uterine Contraction Monitoring in Evaluation of High Risk Pregnancies, Department of Obstetrics and Gynecology (J. D. Iams), 1 December 1987 through 30 November 1988. (Project 766646 - New)

\$50,000.00 - W. K. Kellogg Foundation, Battle Creek, Michigan, Family Community Leadership, Cooperative Extension State Operations (R. M. Conone), 1 February 1988 through 31 January 1991. (Project 766692 - New)

\$39,992.00 - California Institute of Technology, Pasadena, California, Altimetry Research in Ocean Circulation, Department of Geodetic Science and Surveying (R. H. Rapp), 1 January 1988 through 31 December 1988. (Project 766536 - Continuation)

\$29,781.00 - Indiana University, Bloomington, Indiana, Malaysia Cooperative Program, Department of English/Second Language (T. T. Diemer), 28 March 1988 through 31 March 1989. (Project 764972 - Continuation)

\$25,000.00 - American Otological Society, Inc., Minneapolis, Minnesota, Otosclerosis: Morphological, Histochemical, and Cell Culture Studies, Department of Otolaryngology (D. J. Lim), 1 July 1988 through 30 June 1989. (Project 766196 - Continuation)

\$24,600.00 - Danforth Foundation, St. Louis, Missouri, Leadership Skills for a Global Age: A Handbook for Students, Merzhon Center for Education (R. B. Woyach and M. G. Hermann), 30 June 1988 through 30 June 1989. (Project 766699 - New)

\$24,500.00 - American Die Casting Institute, Inc., Des Plaines, Illinois, Die Casting Process -- Data Gathering and Analysis, Department of Industrial and Systems Engineering (R. L. Lewis), 1 March 1988 through 31 August 1988. (Project 766656 - New)

\$20,000.00 - The Universe Group, Washington, D.C., Science Animation Project, Department of Art Education (D. Stredney), 28 March 1988 through 30 June 1988. (Project 766659 - New)

\$14,958.00 - Canal Winchester Local Schools, Canal Winchester, Ohio, Innovative Development of Education in Agriculture (IDEA): A Program for Canal Winchester, Department of Agricultural Education (L. H. Newcomb), 1 July 1988 through 30 June 1989. (Project 766704 - New)

June 2 and 3, 1988 meeting, Board of Trustees

REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)

THE OHIO STATE UNIVERSITY RESEARCH FOUNDATION (contd)

Other Non-Federal Research Contracts/Grants (contd)

\$14,650.00 - The Colorado Public Utilities Commission, Denver, Colorado, Telecommunications Assistance to the Colorado Public Utilities Commission, National Regulatory Research Institute (D. N. Jones), 25 March 1988 through 30 June 1988. (Project 766662 - New)

\$10,293.00 - Schering-Plough Foundation, Kenilworth, New Jersey, Randomized Phase II Study of Recombinant GM-CSF in Patients with Small Cell Carcinoma of the Lung, Department of Internal Medicine (J. J. Rinehart), 23 March 1988 through 23 September 1988. (Project 766686 - New)

\$1,500.00 - Greater New York Academy of Prosthodontics Research Foundation, New York, New York, Nocturnal Bruxing Before and After Overdenture Treatment, Restorative and Prosthetic Dentistry (J. F. Bowley), 1 March 1988 through 28 February 1989. (Project 766711 - New)

\$1,144.00 - Cancer Therapy and Research Foundation of South Texas, San Antonio, Texas, Multidisciplinary Participation in the Cancer Control Activities of the Southwest Oncology Group, Department of Internal Medicine (S. P. Balcerzak), 1 February 1985 through 30 June 1988. (Project 765208 - Continuation)

TOTAL - OTHER NON-FEDERAL AWARDS **\$ 590,281.00**

ENGINEERING EXPERIMENT STATION

State Sponsored Research and Development

\$222,174.00 - Ohio Department of Development, TAEPP, Columbus, OH, and Sheffield Measurement Division, Dayton, OH, "Scan and Gear Measurement Software," Department of Mechanical Engineering, 1 April 1988 through 31 March 1990. (312452)

\$2,670.00 - Ohio Department of Transportation, Columbus, OH, "Orientation Course for ODOT Summer Employment," Department of Civil Engineering, 28 March 1988 through 30 June 1988. (529753)

TOTAL - STATE SPONSORED RESEARCH AND DEVELOPMENT **\$ 224,844.00**

Industrial and Other Sponsored Research and Development

\$55,000.00 - Additional funding from Lockheed Missiles and Space Co., Inc., Sunnyvale, CA, "Lockheed Scattering Development Studies," Department of Electrical Engineering, 23 February 1987 through 30 June 1988. (312404, Ext. 1)

\$52,887.00 - Donald Cohen, O.D., Charlestown, WV, "Ultrasonic Tonometer Program," Department of Electrical Engineering, 1 April 1988 through 31 March 1989. (312457)

June 2 and 3, 1988 meeting, Board of Trustees

REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)

ENGINEERING EXPERIMENT STATION (contd)

Industrial and Other Sponsored Research and Development (contd)

\$50,000.00 - from various industries for membership in Engineering Research Center on Net Shape Manufacturing, Engineering Experiment Station. (529200)

\$50,000.00 - Whitaker Foundation, Camp Hill, PA, "Prototype Graphic Communication Device for Deaf Persons," Department of Engineering Graphics, 1 April 1988 through 31 March 1989. (312455)

\$48,833.00 - Additional funding from EPRI, Palo Alto, CA, "Influence of Hydrogen on PWSCC of Alloy 600 Tubing," Department of Metallurgical Engineering, 24 April 1987 through 30 September 1988. (312412, Ext. 2)

\$40,000.00 - Ford Motor Company, Dearborn, MI, "Noise and Transmission Error Testing," Department of Mechanical Engineering, 1 March 1988 through 31 December 1988. (312453)

\$39,999.00 - from 21 sponsors of 24 development projects in four departments/research areas of the College.

\$24,954.00 - General Electric, Cincinnati, OH, "The Effects of Alloying Elements on the Weldability of Investment Cast Superalloys," Department of Welding Engineering, 1 April 1988 through 2 December 1988. (312456)

\$20,000.00 - from various industry for membership into the Compact Radar Cross Section Measurement Range R&D Consortium, Department of Electrical Engineering. (312884)

\$15,000.00 - Amoco Oil Company, Naperville, IL, "Purchase of Equipment," Department of Chemical Engineering, 15 March 1988 through 31 December 1988. (529754)

\$14,000.00 - from various industries for membership in Gear Research Laboratory, Department of Mechanical Engineering. (529735)

\$13,000.00 - URS Dalton, Columbus, OH, "Evaluation of the Long Term Strength of Filament Wound Plastic Pipe," Department of Civil Engineering, 1 March 1988 through 31 October 1988. (312454)

\$10,000.00 - US Windpower Inc., Livermore, CA, "Wind Tunnel Tests/Vortex Generators," Department of Aeronautical and Astronautical Engineering, 17 March 1988 through 31 March 1988. (312451)

\$6,000.00 - from various industries for "Membership in Program to Develop Computer-Aided Machine Design Modules - Phase II," Department of Mechanical Engineering. (312594)

\$5,000.00 - Universal Energy Systems, Inc., Dayton, OH, "Advanced Simulation Language and Multi-Computer Design for Improving the Performance on Modeling and Control of Metal Forming Processes," Department of Computer and Information Science, 15 November 1987 through 30 June 1988. (312869, Ext. 3)

June 2 and 3, 1988 meeting, Board of Trustees

REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)

ENGINEERING EXPERIMENT STATION (contd)

Industrial and Other Sponsored Research and Development (contd)

\$1,000.00 - Additional monies from Battelle Memorial Institute, Columbus, OH, "FP&L St. Lucie Neutron Dosimetry," Department of Mechanical Engineering, 20 July 1988 through 15 March 1988. (312431, Ext. 2)

TOTAL - INDUSTRIAL AND OTHER SPONSORED RESEARCH \$ 445,673.00

THE OHIO STATE UNIVERSITY DEVELOPMENT FUND

Establishment of Named Funds

Transportation Research Fund (Honda)

The Transportation Research Fund (Honda) was established June 3, 1988, by the Board of Trustees of The Ohio State University. As a part of Substitute Senate Bill No. 321 enacted by the General Assembly and approved by the Governor on January 21, 1988, an appropriation of \$6 million has been paid to the endowment portfolio of The Ohio State University to be used pursuant to section 3335.45 of the Revised Code. This appropriation was provided through proceeds from the sale of the Transportation Research Center of Ohio by the State of Ohio to Honda of America Manufacturing, Inc., and in accordance with the sales agreement reached between the State of Ohio and Honda.

This appropriation is to be invested in the University's permanent endowment fund, under the rules and regulations adopted by the Board of Trustees of The Ohio State University with the right to invest and reinvest as occasion dictates.

The income from this fund is to be distributed annually to the Treasurer of the State of Ohio and, in turn, appropriated to The Ohio State University to be administered by the College of Engineering for the support and encouragement of research by The Ohio State University in automotive, vehicular, and related forms of transportation, and for the development of improved highway facilities for vehicular traffic. The activities to be funded are to be determined in accordance with procedures established by the Dean of the College of Engineering of The Ohio State University.

It is the desire of the State of Ohio that this fund should benefit the University in perpetuity. If the need for this fund should cease to exist or so diminish as to provide unused income, then another use shall be designated by the Board of Trustees in consultation with the appropriate college dean to carry out the desire of the State of Ohio.

**John H. McConnell Endowment Fund
for the Cancer Research Institute**

The John H. McConnell Endowment Fund for the Cancer Research Institute was established June 3, 1988, by the Board of Trustees of The Ohio State University with gifts to The Ohio State University Development Fund from John H. McConnell of Worthington, Ohio.

June 2 and 3, 1988 meeting, Board of Trustees

REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)

THE OHIO STATE UNIVERSITY DEVELOPMENT FUND (contd)

Establishment of Named Funds (contd)

**John H. McConnell Endowment Fund
for the Cancer Research Institute (contd)**

All gifts are to be invested in the University's permanent endowment fund, under the rules and regulations adopted by the Board of Trustees of The Ohio State University with the right to invest and reinvest as occasion dictates.

The annual income shall be used to support cancer research as approved by the Medical Director of the Arthur G. James Cancer Hospital and Research Institute and the Dean of the College of Medicine. If it is determined that funding for cancer research is so ample, then the income from this fund may be used for those purposes deemed appropriate by the Medical Director of the Cancer Research Institute.

It is the desire of the donor that this fund should benefit the University in perpetuity. If the need for this fund should cease to exist or so diminish as to provide unused income, then another use shall be designated by the Board of Trustees to carry out the desire of the donor.

**The Ohio State University Marion Campus
Theodore B. Myers Scholarship Endowment**

The Ohio State University Marion Campus Theodore B. Myers Scholarship Endowment was established June 3, 1988, by the Board of Trustees of The Ohio State University with gifts to The Ohio State University Development Fund from Theodore B. Myers (B.S. '43, M.S. '48, and Ph.D. '58), Professor of Zoology, Marion Campus.

All gifts are to be invested in the University's permanent endowment fund, under the rules and regulations adopted by the Board of Trustees of The Ohio State University with the right to invest and reinvest as occasion dictates.

Twenty percent (20%) of the annual income shall be added to the fund's principal. The remaining eighty percent (80%) shall be used to provide one or more scholarships or scholarship-loans to deserving students of merit who are attending The Ohio State University at Marion. Priority will be given to students who are studying the biological sciences. Repaid loans will be returned to the loan fund at the discretion of the Dean of the Marion Campus. Selection of the recipients will be made upon the recommendation of The Ohio State University Marion Campus Scholarship Committee in consultation with the Dean of the Marion Campus and the University Committee on Student Financial Aid.

It is the desire of the donor that this fund should benefit the University in perpetuity. If the need for this fund should cease to exist or so diminish as to provide unused income, then another use shall be designated by the Board of Trustees in consultation with the appropriate college dean, department chairperson, or program administrative officer to carry out the desire of the donor.

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REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)

THE OHIO STATE UNIVERSITY DEVELOPMENT FUND (contd)

Establishment of Named Funds (contd)

The Papich Family Endowment Fund

The Papich Family Endowment Fund was established June 3, 1988, by the Board of Trustees of The Ohio State University with gifts to The Ohio State University Development Fund from the Papich family members and their friends.

All gifts are to be invested in the University's permanent endowment fund, under the rules and regulations adopted by the Board of Trustees of The Ohio State University with the right to invest and reinvest as occasion dictates.

The annual income shall be used to provide financial support to scholars and/or students engaged in research of Slavic manuscripts on microfilms of the Resource Center for Medieval Slavic Studies (related to Serbian Orthodox Religion and Culture), which is housed in the Hilandar Research Library. Requisitions for these funds will be initiated by the Director of the Research Center for Medieval Slavic Studies and approved by the Dean of the College of Humanities, in consultation with the University Committee on Student Financial Aid.

It is the desire of the donors that this fund should benefit the University in perpetuity. If the need for this fund should cease to exist or so diminish as to provide unused income, then another use shall be designated by the Board of Trustees to carry out the desire of the donors, with preference being given to recommendations from the appropriate administrative official of the University who is then directly responsible for Slavic studies.

Change of Name and Description of Named Funds

**The Phi Kappa Phi Ohio State University
Chapter Scholarship Fund**

The Phi Kappa Phi OSU Chapter Scholarship Fund was established June 9, 1983, by the Board of Trustees of The Ohio State University with gifts to The Ohio State University Development Fund from The Ohio State University Chapter of the Honor Society of Phi Kappa Phi. The name and description were changed June 3, 1988.

These gifts are to be invested in the University's permanent endowment fund, under the rules and regulations adopted by the Board of Trustees of The Ohio State University with the right to invest and reinvest as occasion dictates.

The annual income is to be used to provide a scholarship(s) of not less than \$900 per scholarship to undergraduate students at any of the campuses of The Ohio State University. Annually, one scholarship shall be designated as the Ted R. Robinson Phi Kappa Phi Scholarship, to recognize the distinguished contributions of Dr. Ted R. Robinson to higher education and to the Honor Society of Phi Kappa Phi, which he

June 2 and 3, 1988 meeting, Board of Trustees

REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)

THE OHIO STATE UNIVERSITY DEVELOPMENT FUND (contd)

Change of Name and Description of Named Funds (contd)

**The Phi Kappa Phi Ohio State University
Chapter Scholarship Fund (contd)**

served as a charter member in 1972, as president of The Ohio State University chapter in 1980-81, and as regional vice president in 1983. The scholarship(s) are to be awarded to students exhibiting academic excellence in any baccalaureate field of study. Financial need is not to be a criterion in the selection of the recipient(s), nor is membership in Phi Kappa Phi. Selection of recipients is to be made by the University Committee on Student Financial Aid upon the recommendation of the Awards Committee of Phi Kappa Phi.

Should the need for this fund cease to exist or so diminish as to provide unused income, then the income may be used for any purpose whatsoever as determined by the Board of Trustees, with preference being given to programs which support and encourage the academic achievement of undergraduate students.

William Green Memorial Fund

The William F. Green Fund for Fellows and Scholars was established May 9, 1955, through a gift of \$100,000 from the American Federation of Labor in honor of and in memory of William Green, former president of the American Federation of Labor from 1924 to 1952. Mr. Green was born in Coshocton, Ohio, March 3, 1873, and rose from the ranks to labor statesmanship. He helped to define a significant period of labor history and philosophy. The name and description were changed June 3, 1988.

The principal is to be invested in accordance with Section 3335.12 G.C., the income to be used in the following manner:

1. Two undergraduate scholarships in the liberal arts, carrying a minimum annual stipend of approximately \$800.00 annually.
2. One or more graduate scholarships or fellowships in the field of labor and industrial relations carrying an annual stipend which is competitive with other graduate fellowships or assistantships at The Ohio State University.
3. A number of annual grants to trade union members wishing to attend labor institutes conducted jointly by the unions and The Ohio State University.

Candidates shall be selected by a committee appointed by the President of the University. The committee will comprise four members from the departments of the social sciences, two representatives from the Ohio State Federation of Labor, and a senior faculty member of the labor economics department who shall serve as chairperson.

If in any year the scholarships, fellowships, or grants are not awarded, the interest on the fund may be added to the principal or be devoted to

June 2 and 3, 1988 meeting, Board of Trustees

REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)

THE OHIO STATE UNIVERSITY DEVELOPMENT FUND (contd)

Change of Name and Description of Named Funds (contd)

William Green Memorial Fund (contd)

uses recommended by the committee.

In case the designated uses for these funds should cease or diminish so as to create unused funds, then on the recommendation of the committee administering the fund, the Board of Trustees of The Ohio State University may use said income for the purpose of furthering education consistent with the original purpose of the fund. The committee shall preserve the approximate real value of all grants in terms of purchasing power by adjusting the number of grants and the amounts of the stipends.

The recipients shall be known as William Green Fellows or Scholars, and the American Federation of Labor shall annually receive a list of their names.

Noel F. George, Baker & Hostetler Chair in Law Fund

The Noel F. George Chair in Law Fund was established September 7, 1984, by the Board of Trustees of The Ohio State University with gifts to The Ohio State University Development Fund from Noel F. George ('32 Law) and The George Foundation of Columbus, Ohio. The name was changed to the Mildred S. and Noel F. George Chair in Law Fund on March 1, 1985. The name and description were further changed June 3, 1988.

All gifts are to be invested in the University's Permanent Endowment Fund under the rules and regulations adopted by the Board of Trustees of The Ohio State University, with the right to invest and reinvest as occasion dictates.

The annual income and additional gifts shall be added to the principal until such time as the principal reaches \$750,000. At that time the annual income shall be used to provide salary and program support for the work of a distinguished scholar, researcher and teacher in Law. Appointment to the Chair will be recommended by the Dean of the College of Law to the Provost and approved by the Board of Trustees.

Should the need for this fund cease to exist or so diminish as to provide unused income, then the income may be used for any priorities to enhance the law program, at the discretion of the appropriate administrative official of the University who is then directly responsible for law education.

Change in Name of Fund

The Baker & Hostetler Law Library and Building Fund

The Mildred S. and Noel F. George Fund was established September 3, 1982, by the Board of Trustees of The Ohio State University with a gift to The Ohio State University Development Fund from the Kaplan-Halpert Foundation

June 2 and 3, 1988 meeting, Board of Trustees

REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)

THE OHIO STATE UNIVERSITY DEVELOPMENT FUND (contd)

Change in Name of Fund (contd)

The Baker & Hostetler Law Library and Building Fund (contd)

of Cleveland, Ohio, through the generosity of Noel F. George ('32 Law), a trustee of the Foundation, on the occasion of his 50th Anniversary of graduation from the College of Law. The name was changed to The Noel F. George - Baker & Hostetler Law Library Fund on February 7, 1986. The name was further changed June 3, 1988.

All gifts are to be invested in the University's Permanent Endowment Fund under the rules and regulations adopted by the Board of Trustees of The Ohio State University, with the right to invest and reinvest as occasion dictates.

The annual income shall be used to provide support for the Library in the College of Law at the discretion of the Dean of the College of Law.

Should the need for this fund cease to exist or so diminish as to provide unused income, then the income may be used for any purpose whatsoever as determined by the Board of Trustees, with preference being given to recommendations from the appropriate administrative official of the University who is then directly responsible for legal education.

Change in Description of Named Fund

The Henry G. Cramblett Fund in Medicine

The Henry G. Cramblett Fund in Medicine was established May 5, 1988, by the Board of Trustees of The Ohio State University with a gift of \$500,000 to The Ohio State University Development Fund from the Estate of the late Mrs. Helen Simpson Lambacher (B.S.Ed. '33) of Venice, Florida. The \$500,000 gift, representing the initial distribution of Mrs. Lambacher's estate gift, memorializes her parents, Lynn and Sarah Simpson, and honors Dr. Henry G. Cramblett's service as Dean of the College of Medicine and Vice President for Health Sciences from 1973 to 1982. The description was changed June 3, 1988.

All gifts are to be invested in the University's permanent endowment fund, under the rules and regulations adopted by the Board of Trustees of The Ohio State University with the right to invest and reinvest as occasion dictates.

When the final portion of Mrs. Lambacher's total gift of at least \$600,000 is added to the principal, an endowed chair will be established in accordance with the level of funding required to establish a chair at the time the donor's will was drafted in 1978. Subsequently, the annual income is to provide salary and program support in the Department of Pediatrics in The Ohio State University College of Medicine for the work of a distinguished pediatrician who is nationally noted for leading research and patient care in the area of infectious diseases. Appointment to the Cramblett Chair will be made at the recommendation of the Dean of the College of Medicine to the Provost and approved by The

June 2 and 3, 1988 meeting, Board of Trustees

REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)

THE OHIO STATE UNIVERSITY DEVELOPMENT FUND (contd)

Change in Description of Named Fund (contd)

The Henry G. Cramblett Fund in Medicine (contd)

Ohio State University Board of Trustees after consultation with the Chair of the Department of Pediatrics and Dr. Henry G. Cramblett, as long as he is living.

It is the desire of the donor that this fund should benefit the University in perpetuity. If the need for this fund should cease to exist or so diminish as to provide unused income, then another use shall be designated by the Board of Trustees in consultation with the appropriate dean, department chair, or program administrative officer to carry out the desire of the donor.

Change in Description of Professorship

Ernst & Whinney Professorship in Accounting

The Ernst & Ernst Professorship in Accounting was established February 3, 1978, by the Board of Trustees of The Ohio State University with gifts to The Ohio State University Development Fund from Ernst & Whinney, The Ernst & Whinney Foundation and from current and former Ernst & Whinney staff members, partners and friends in honor of Richard T. Baker. The name was changed to the Ernst & Whinney Professorship in Accounting on November 30, 1979. The description was changed June 3, 1988.

All gifts are to be invested in the University's permanent endowment fund, under the rules and regulations adopted by the Board of Trustees of The Ohio State University with the right to invest and reinvest as occasion dictates.

The annual income shall be added to the fund's principal until the fund accumulates to \$750,000. During the interim, disbursements not to exceed \$40,000 per year from the annual income, additional gifts, and principal, if necessary, shall be made to support the present Ernst & Whinney Professor in Accounting. Upon reaching \$750,000, the annual disbursements will be limited to the annual earnings on these funds and additional contributions, if any, so that the book value of the endowed principal balance does not fall below \$750,000.

It is the desire of the donors that this fund should benefit the University in perpetuity. If the need for this fund should cease to exist or so diminish as to provide unused income, then another use shall be designated by the Board of Trustees, in consultation with the Dean of the College of Business and the Chairperson of the Department of Accounting, to carry out the desire of the donors.

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June 2 and 3, 1988 meeting, Board of Trustees

**EASEMENT
DAYTON POWER AND LIGHT COMPANY**

Resolution No. 88-140

Synopsis: Renewal of a power line easement to Dayton Power and Light Company is proposed.

WHEREAS in 1973 the University granted to Dayton Power and Light Company a 15-year easement consisting of a strip of land 10 feet wide and approximately 285 feet in length for an underground distribution line on property located near the Marysville Senior Citizen Housing Center in Marysville; and

WHEREAS this easement expired and Dayton Power and Light Company has requested a renewal of the easement for a period of 15 years; and

WHEREAS this easement will serve both University property and others and the University will receive a fee of One Thousand One Hundred Twenty-Five Dollars and No Cents (\$1,125.00) for this easement; and

WHEREAS the appropriate University offices have recommended the renewal of this easement:

NOW THEREFORE

BE IT RESOLVED, That the President and/or Vice President for Business and Administration be authorized to request the Deputy Director of Public Works of the Department of Administrative Services, pursuant to his statutory duties, to act for and on behalf of the University in developing the necessary legal instruments to provide for this easement.

Upon motion of Mrs. Bowser, seconded by Mr. Berry, the Board of Trustees adopted the foregoing resolution by unanimous roll call vote.

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**EASEMENT
UNITED TELEPHONE COMPANY OF OHIO**

Resolution No. 88-141

Synopsis: Renewal of a telephone line easement to United Telephone Company of Ohio is proposed.

WHEREAS in 1972 the University granted to United Telephone Company of Ohio a 15-year easement consisting of one strip of land approximately 75 feet in width and 200 feet in length and one strip of land approximately 70 feet in width and 502 feet in length for the relocation of telephone facilities at the Mansfield Regional Campus; and

WHEREAS this easement has expired and United Telephone Company of Ohio has requested a renewal of the easement for a period of 15 years; and

WHEREAS the telephone facilities serve University property; and

June 2 and 3, 1988 meeting, Board of Trustees

**EASEMENT
UNITED TELEPHONE COMPANY OF OHIO (contd)**

WHEREAS the appropriate University offices have recommended the renewal of this easement:

NOW THEREFORE

BE IT RESOLVED, That the President and/or Vice President for Business and Administration be authorized to request the Deputy Director of Public Works of the Department of Administrative Services, pursuant to his statutory duties, to act for and on behalf of the University in developing the necessary legal instruments to provide for this easement.

Upon motion of Mr. Teaford, seconded by Mr. Wolf, the Board of Trustees adopted the foregoing resolution by unanimous roll call vote.

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**RENEWAL OF LIFE, DEPENDENT LIFE, ACCIDENTAL DEATH & DISMEMBERMENT
HOSPITALIZATION, SURGICAL-MEDICAL, MAJOR MEDICAL,
DENTAL AND VISION PROGRAM BENEFITS**

Resolution No. 88-142

Synopsis: Renewal of the above faculty/staff benefit programs is recommended for award.

WHEREAS the Board of Trustees in previous resolutions has awarded these coverages and subsequent improvements to the carriers listed below -- until such time as deemed appropriate to seek new bids; and

<u>Coverage</u>	<u>Carrier</u>
Life, Dependent Life, Accidental Death & Dismemberment, Surgical-Medical and Major Medical	John Hancock Mutual Life Insurance Company
Hospitalization	Central Benefits Mutual Insurance Company
Dental and Vision	Community Mutual Insurance Company

WHEREAS William M. Mercer-Meidinger-Hansen Incorporated was employed to assist in the preparation of renewal bid specifications and proposal forms and in the evaluation and analysis of the carriers' responses and quotations for the continuation of the existing programs after June 30, 1988; and

WHEREAS after public advertisement, specification and proposal forms were mailed to twenty-five (25) carriers; seven (7) did not respond, seven (7) declined in writing to quote, and proposals were received from eleven (11) carriers; and

WHEREAS the appropriate University offices have reviewed the findings and conclusions detailed in the William M. Mercer-Meidinger-Hansen

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**RENEWAL OF LIFE, DEPENDENT LIFE, ACCIDENTAL DEATH & DISMEMBERMENT
HOSPITALIZATION, SURGICAL-MEDICAL, MAJOR MEDICAL,
DENTAL AND VISION PROGRAM BENEFITS (contd)**

Incorporated report and have concluded that the following carriers be awarded the specified coverages at these estimated annual premiums:

<u>Coverage</u>	<u>Carrier</u>	<u>Annual Premium</u>
Life, Accidental Death & Dismemberment and Dependent Life	Community Life (Community Mutual Insurance Company) (Eff: NLT 1 September 1988)	\$3,245,124
Hospitalization	Central Benefits Mutual Insurance Company (Eff: 1 July 1988)	\$7,247,928
Surgical-Medical Major Medical	Community Mutual Insurance Company (Eff: NLT 1 September 1988)	\$7,181,796
Dental	Community Mutual Insurance Company (Eff: 1 July 1988)	\$3,425,448
Vision	Vision Service Plan (Eff: NLT 1 September 1988)	\$ 642,108

NOW THEREFORE

BE IT RESOLVED, That contracts for these coverages be awarded for a one-year period effective as specified above with the premium and the performance of the carriers to be reviewed annually. These insurance contracts will remain in force after the initial term until the Board of Trustees deems it appropriate to review the designation of the carriers and/or seek new premium quotations.

*Not Later Than (NLT)

Upon motion of Mr. Wolf, seconded by Mr. Barone, the Board of Trustees adopted the foregoing resolution by unanimous roll call vote.

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President Jennings made the following statement:

Thank you, Mr. Chairman. I will call on Mr. Ihrig to summarize our discussion of yesterday. I would point out that since you have passed that \$1,125 easement that that will be incorporated into this budget.

Mr. Berry:

That will make a significant impact.

June 2 and 3, 1988 meeting, Board of Trustees

President Jennings:

Weldon, will you summarize --

Mr. Ihrig:

During this summary what I will be doing is referencing this budget document, the gray document, that is at your places. Yesterday we reviewed in detail the process to develop the budget and pulled together the numbers for a balanced budget showing resources of \$990.1 million to support planned uses of \$989.8 million. Before going on, I would like to paraphrase that while these numbers are very large -- this will be, most likely, the last Current Funds Budget under a billion dollars on an annual basis -- that it isn't the dollars themselves that are the important part of this University, it is the people and the activities that they support that provide the excellence and the opportunities at Ohio State University. So these are only one of the means to an end.

In the second section of it, page 1, the document shows the overall budgeted resources in total. So this is a total University budget related to all sources of funds from State appropriations to fees, as well as the various gifts and grant activities that will be received and expended, and the sponsored research, as well as the earnings operations. As page 4 of the document shows, this represents a 5.4 percent increase in the total resources over the current fiscal year. The recommended budget for 1988-89 does incorporate the budget planning guidelines presented by President Jennings at your May Board meeting.

In addition to grouping Ohio State's budgets by campus, pages 6 and 7 show the sources and uses of funds by the basic fund categories we use to account for current revenues and expenditures: General Funds, Earnings Operations, and Restricted Funds are the three main categories. The Restricted Funds, budgeted at \$223 million or 22 percent of the total, are monies received for specific purposes specified by an external entity such as in the case of Federal or private sponsored research. These funds are accounted for so that they are only spent for the purposes agreed upon with the external organization or person providing the funds.

Earnings Operations, budgeted at \$325 million, or 33 percent of the total, are all those units who charge separately for their services, which includes University Hospitals, student dormitories, copying services, as well as sales of publications. These operations earn the revenues they spend, as well as pay University overhead and facilities costs. And we do budget those just like any earnings operations outside the University, with a profit and loss statement for which they are directed to break even and a balance sheet to pay their total costs. They also receive interest income on their positive balances, pay interest on any negative balances, and participate in allocations and reallocations throughout the University.

June 2 and 3, 1988 meeting, Board of Trustees

Mr. Ihrig: (contd)

The General Funds, budgeted at \$441 million or 45 percent of the total, are the unrestricted, non-earnings resources used to fund the core instructional, administrative, and physical plant activities at Ohio State. As shown on page 8 under the column titled "Unrestricted General," the major two sources of these funds are State instructional appropriations and student tuition and fees.

It is important to note that while the University's accounting system is based upon these three fund groups, management actions to support the needs of instruction, research, and support services are based upon making the best use of all available resources. The deans, vice presidents and department chairs have the flexibility and the responsibility to make maximum use of all available resources to support their priority needs.

Page 8 also summarizes the distribution of the University's total current resources for 1988-89 fiscal year. The column titled "All Funds" shows State appropriations as \$316 million, which represent 32.0 percent of total resources, a decrease from the 32.4 percent last year; while student tuitions represent 15.5 percent of current resources versus 15.1 percent last year.

The General Funds budget at Ohio State is directly impacted by student enrollment expectations, not only the numbers on each campus, but also the mix of students by class rank and program. Enrollments affect not only tuition revenue, but also the amount of State instructional subsidies. Since Ohio State Columbus has a legislated enrollment limit of 40,000 Full Time Equivalent (FTE) students, the mix between class rank and program will have the greatest impact on these resources.

Pages 13 and 14 show Ohio State's historical enrollments along with our expectations for this coming Autumn Quarter. The projected headcount enrollment of 52,893 on the Columbus Campus is expected to result in a non-exempt FTE enrollment of 40,297 versus the 40,598 this past Autumn Quarter. This decrease in non-exempt FTE results from the planned effort to reach the 40,000 FTE limit mandated by the General Assembly in the early 1970's.

As in prior years, we are concerned about the total impact on Ohio State's students of all student related charges that the University controls. The chart on page 20 shows that the increase in the package of University controlled charges to resident undergraduate and graduate students, including tuition, residence hall room and board, books, parking, and football and basketball tickets are about 7.8 percent, in total -- that is with a 7.8 increase, with a tuition increase recommended of 7.9 percent at the undergraduate resident level.

This 7.9 percent increase matches the State tuition assumptions used in the development of the instructional subsidy funding levels provided by the General Assembly. Since 1982, this University has been able to enhance accessibility by keeping tuition increases to approximately 50 percent of the levels

June 2 and 3, 1988 meeting, Board of Trustees

Mr. Ihrig: (contd)

included in the State budget. However, with modest increases in State support of this biennium and 3.6 percent this budget year, it is unfortunately our situation to no longer be able to retain this lower rate of increase. We have to set Ohio State's tuition level this year at the same level that has been recommended in the State budget.

Comparing Ohio State undergraduate fees with the Big Ten is difficult due to the variety of tuition arrangements, and not all of the Universities have yet decided on their new tuition rates. However, preliminary data indicates that this fee increase will keep Ohio State at its current rank of fifth out of the 9 public institutions in the Big 10. So this means that Michigan, Michigan State, Minnesota, and Wisconsin will still have tuitions higher than Ohio State. We also expect that Ohio State will retain its current ranking of 10th out of the 13 State universities in Ohio. And while we don't think that the University in quality in any sense ranks at those low levels, in the areas of tuitions we think we should be there. That is why we work very hard to keep our marketing positions as low as we can for accessibility.

The chart on page 21 provides a summary of undergraduate tuition since 1970-71, and the interesting column is the fifth one, which shows the tuitions over this period in constant 1988-1989 dollars. Over the past 18 years, Ohio State's undergraduate tuitions have increased only 7.47 percent over the inflationary rates of that period. This averages less than 1/2 of 1 percent increase per year over inflation. If we could add an excellence value factor to these data, I'm confident that Ohio State's students would be realizing a bargain exceeded nowhere else in the nation.

Details of the earnings budgets are provided on pages 27-31, and the table on page 27 shows that the University-wide average change in earnings rates for 1988-89 is only 4.9 percent, with a total average rate increase of 5.9 percent when tuitions are included.

Details on restricted and regional campus budgets are provided on pages 32-35.

We are presenting this balanced 1988-89 current funds budget totaling \$990.1 million for your consideration and recommend its approval.

I would be very happy to respond to any questions regarding this budget.

Mr. Wexner:

Just to polarize the point, what if Ohio State were the most expensive, why would that be bad?

June 2 and 3, 1988 meeting, Board of Trustees

Mr. Ihrig:

Because of the overall diversity of students that we have at Ohio State, our primary mission has been to maximize that diversity so that students from all economic levels have the ability to come to Ohio State.

Mr. Wexner:

What would be the range of difference? I didn't look at the page.

President Jennings:

In terms of the public sector of higher education -- if we would go to the top of the public sector you would have roughly a 50 percent increase in tuition.

Mr. Wexner:

I was asking about the 13 that you mentioned.

President Jennings:

Oh, the 13 --

Mr. Teafor:

Miami is about 50 percent higher.

President Jennings:

We go roughly 50 percent -- for both state and nationally in terms of the public sector. Private sector would be out of the question. The basic ingredient here is the accessibility issue. The implementation of that is a three-legged stool, it is the low tuition, adequate student financial aid, and work opportunities. Roughly 70 percent of our student body is involved in some sort of scholarship or work opportunity at the institution. And as this institution compares more to the classic land-grant -- in the Big 10 that would be Purdue, Indiana, Wisconsin, Michigan State, Minnesota. Whereas, Michigan, the University of Indiana, and the University of Iowa are not land-grant institutions and do not typically have the classic land-grant mission of educational opportunities to all those individuals intellectually qualified, but not necessarily financially qualified.

Mr. Wexner:

If I heard correctly, our mandate of service would be the same as Michigan States and they're the highest?

President Jennings:

Of the land-grant institutions, Michigan State is the highest in the Big 10.

Mr. Teafor:

Michigan is higher than Michigan State.

June 2 and 3, 1988 meeting, Board of Trustees

Mr. Ihrig:

They're the land-grants, Michigan State.

Mr. Wexner:

I am seeing us as more analagous to Michigan State than Michigan.

Mr. Ihrig:

That is correct.

Mr. Wexner:

And Michigan State --

Mr. Ihrig:

Would be -- of the comparable institutions as far as the land-grant mission, Michigan State would be the highest in the Big 10.

Mr. Wexner:

And how much higher would they be than us?

Mr. Ihrig:

They are about \$1,000 a year higher.

Mr. Teafor:

So, again, 50 percent.

Mr. Ihrig:

Miami University in Ohio is the highest in the State, and they are about \$1,000 a year higher than Ohio State.

Mr. Wexner:

I think we should discuss that at greater length. I'm not proposing rejecting this proposal, but I guess as a merchant I'm interested in a competitor that does very well that has a price 50 percent higher than mine and seems to be serving its customers.

Mr. Teafor:

The reason Michigan State has the highest tuition is the State of Michigan is not supporting the --

President Jennings:

Oh no, the State of Michigan is actually supporting it better than we are. We are not only a low tuition institution, but we are a low State supported institution. We have come off of being a high tuition institution, you know when Weldon reports that less than 1/2 percent a year relative to inflation in the last 18

June 2 and 3, 1988 meeting, Board of Trustees

President Jennings: (contd)

years. Ten years ago we were third in the Big 10 to Michigan and Michigan State, we have purposely driven that down. In the context of a State policy, over the last several years, we have been attempting to drive down tuition as a percent of cost to the traditional land-grant 1/3. We made great progress on that in the early '80's, moving from the 47 percent down to about 34 percent State-wide. This legislation that we are working with right now drives that number back up to State-wide about 40 percent for students paying the percent of cost. Tuition is indeed tied directly to State appropriations. You can see that. The way that we are budgeted, typically tuition is an off-set to our State appropriations. It is even more of an off-set at Ohio State because we have been doing less than what the State formulas have been recommending for several years now. This is the first time in seven years that we have done what the State appropriation is, the rest of the time it has been less. But we do continue to discuss that issue and monitor that issue. You should also note that in this budget is an appropriation for scholarships that keeps the purchasing power of the scholarship budget constant so that any student now at Ohio State, or coming to Ohio State, will have the same financial opportunities for scholarships that they had before, in terms of a percent of cost. So the students won't get driven out on the basis of these tuition increases either because of the 8 percent increase or because of new eligibilities because of the 8 percent increase. There is no question that we are a low tuition institution relative to not only the private, but relative to our public counterparts.

Mrs. Bowser:

I feel very strongly that we have to keep ourselves accessible to students. If it gets too high, there are students that even if you do have scholarship packages, are going to have difficulty coming up with the money to come. We do have a land-grant mission here and that is to make ourselves accessible.

President Jennings:

Absolutely.

Mr. Teaford:

As a matter of fact, it is hard to justify public education if not on the accessibility basis. We shouldn't be in that area if we do not have accessibility.

President Jennings:

But there again, I think, it is a very instructive to note that this budget reports 32 percent of it coming from the State of Ohio. John was saying yesterday, if you asked the public how much of our budget comes from the State of Ohio, most people would say 75-80%. The other important thing to note in this budget is about 30 percent from the State of Ohio, another 15 percent from the federal government, or about 45 percent of total

June 2 and 3, 1988 meeting, Board of Trustees

President Jennings: (contd)

tax dollars in this budget. You look at the budget of a major comprehensive private institution, you find that institution is about 15 percent supported by their home state, and about 30 percent supported by the federal government, or about 45 percent tax dollars in the comprehensive private institution.

The federal tax dollars in the private schools are much higher because it comes from the student aid package which is given at the federal level as a percent of cost. If you qualify for student aid at Ohio State, you qualify for about \$4,000 a year full aid. If you qualify at MIT, you qualify for \$15,000 for aid. The point is that our cost structure -- not only are our prices lower, but our cost structure is substantially less. The old argument that the privates have to have higher tuition because of no tax dollars, that doesn't fly with the comprehensive privates, because the amount of tax dollars are roughly about the same. Now the privates don't like me saying that -- and the student aid of course doesn't show up in the budget as tax dollars, but it is there.

It is instructive also to note in the privates that more and more their student body comes from only two economic classes: the quite well-to-do or the quite poor. The privates have a big financial aid package, but they don't have the middle class. We have a lot of students where their economics background doesn't qualify them for direct aid, but does qualify them for work opportunities and so forth. Our lower tuitions, in general, allow us to keep bringing in that middle class at this institution. I think this is a major long-term advantage that we have today, in terms of our pricing structure as federal student financial aid begins to decline. But at the same time, that doesn't hit the argument about Michigan State or Purdue or Wisconsin who are above us.

Mr. Wexner:

I would find it enlightening to look at those -- not only a chart that measures us against State institutions and regionals, but against, let's say, the ten best land-grant or comparable institutions on a national level. I would like to look at our performance, say, against Texas, as well as Indiana -- whoever you might think the ten best competitors in terms of size, mandate, and quality of education are. I think we should be looking at a national model not a local model, because that is who we are competing with.

President Jennings:

We do look at that and you will find, generally, tuition goes down as you move west.

Mr. Wexner:

I'm thinking in terms of excellence.

June 2 and 3, 1988 meeting, Board of Trustees

President Jennings:

Oh, I understand. That is why I keep insisting about comparing the State appropriation, because if you start on the East Coast, you will find high tuitions, generally, at the land-grant institutions. As you move west -- Texas, for example, has very low tuition.

Mr. Wexner:

But again, I think, that would even be useful in dealing with the Legislature, because if they have all the Ohio institutions competing with all the Ohio institutions, and they don't understand that we are competing with Texas or Oklahoma or whomever --

President Jennings:

In terms of publics, the best comparisons are the Big 10. There are some -- Berkeley is a public that we compare with, and UCLA, the Texas schools, the University of North Carolina. If you get outside of the publics, the Big 10 is our comparison. We do compare our faculty salaries to what we call Category 1, Ph.D. granting, institutions.

Mr. Teafor:

Unfortunately, the way the State funds -- the State treats us exactly the same as Shawnee State; namely X dollars per student. And there is no differentiation at all. That is the way the whole system of Regents -- I mean there was talk at one time that we weren't going to have a Regents anymore, but that is not true now. It would really take going to square one on all the funding, because they don't think we are any different from Shawnee State.

President Jennings:

Well, there is some differentiation because we get State subsidy on categories, so we get more for our graduate program and upper divisions. But for similar students at Shawnee State and Ohio State, the State subsidy is the same.

Mr. Wexner:

Education at higher levels.

President Jennings:

Well, that is right. The other thing, too, about the land-grant mission is that 100 years ago Ohio State was one of the few opportunities for quality education for the middle and poor class, but not today. In Ohio there are some very fine undergraduate opportunities other than Ohio State. The Legislature has already made that decision by putting a limit on our enrollment. We could easily, for example, right now have 80,000 to 90,000 students, or we could easily move to that in terms of our applications. But with this enrollment ceiling --

June 2 and 3, 1988 meeting, Board of Trustees

President Jennings: (contd)

now we like that enrollment ceiling, because then you would also have a massive campus over on West Campus. We don't think we can get any bigger than we are now. But in terms of the land-grant mission, the State has always said, "every student can't go to Ohio State who wants to," because there is not enough room. And that is one of the reasons that we've gone to the selective admissions. But it is a question that we are constantly looking at, "what should our levels be?"

Mr. Berry:

Which is an advantage though. There are pros and cons in everything.

President Jennings:

Oh, yes. Well, the other thing that is coming, too, is that as selective admissions becomes more institutionalized -- and we are already seeing it, our attrition is declining, students aren't flunking out -- we are going to have more students in the upper division in junior and senior year on a relative basis. Since I've been here, the freshman class has dropped from 8,200 to 6,300, but the size of the institution remains the same.

Mr. Berry:

I think all universities and colleges across the country, public and private, have definitely one thing in common and that is they don't have enough money for everything they would like to do. And I don't think they ever will.

President Jennings:

They never have, but it is getting more critical. We talked a little bit about obsolescence. I think a classic example is that late this year we will become the first higher education institution to own the next generation Cray supercomputer. A \$22 million expenditure, plus an annual operating budget of \$7 million. That machine -- I was talking to some NSF people just the other day, and they expect that machine to be obsolete, totally obsolete in three years. Here is a \$22 million expenditure that is going to be out-of-date in three years. That is a pretty rapid turnover. While \$22 million in a billion dollar budget might not seem like a lot, it is still a lot of money.

Mrs. Bowser:

Well, the MRI -- by the time we got the building built we had to get the update, because in the year and a half, or two years it took to build the building --

President Jennings:

We actually slowed it down by a year to get a higher level of technology. This stuff is changing so rapidly. The biotech --

June 2 and 3, 1988 meeting, Board of Trustees

President Jennings: (contd)

we used to kid the biological science people that all they needed was a petrie dish and a microscope, not any more. We put \$5 million into Rightmire Hall essentially for research in biotech. And if Pappachan Kolattukudy were here, today, he would say that is just the beginning. And he is right!

Mr. Berry:

Well, I think, again, I'll say for the record, Weldon, we complement you and your people for putting together this budget and President Jennings for setting out the guidelines. Overall, I think this is a very good budget considering all the pros and cons of it.

1988-89 CURRENT FUNDS BUDGET

Resolution No. 88-143

Synopsis: The budget for fiscal year 1988-89 is being submitted for adoption.

WHEREAS the levels of State support have been established for the second year of the 1987-89 biennium; and

WHEREAS appropriate planning and consultation within the University has been accomplished; and

WHEREAS the President is now prepared to present the 1988-89 budget:

NOW THEREFORE

BE IT RESOLVED, That the University Current Funds Budget for fiscal year 1988-89, as described in the accompanying text and tables, be approved, with authorization for the President to make expenditures within the projected income levels; and

BE IT FURTHER RESOLVED, That student fees be increased for all students beginning Autumn Quarter 1988, as specified in the Schedule of Student Fees incorporated in this resolution effective Autumn Quarter 1988; and

BE IT FURTHER RESOLVED, That the Secretary be instructed to incorporate all supporting documents into the minutes of the meeting, including faculty tenure approvals, salary rolls with promotions, and fees and charges for the fiscal year 1988-89, and to file these materials with the official records of this University.

Mr. Immke made the following statement:

Before I ask for your motion on that, the Personnel Committee of this Board met on June 2, 1988, and the following report is submitted to the Board of Trustees.

The position of President of this University is a highly visible one and as such, the President's performance is constantly being assessed by a variety of constituents, including faculty/staff/students, alumni, the media, and the public, in general. As is

June 2 and 3, 1988 meeting, Board of Trustees

Mr. Immke: (contd)

customary, the Board's Personnel Committee has also reviewed and discussed the salient components of the President's performance. This report is a result of that process for 1988.

The Board continues to appreciate the leadership effort on behalf of the University by President Jennings. His devoted service combined with his energetic commitment has been admirable. Given his performance and demonstrated ability to get the job done we have determined that President Jennings's salary should be increased by 8 percent for fiscal year ending June 30, 1989.

The salary increase was determined based upon relevant market consideration and salaries of presidents of other major land-grant research institutions. The Secretary of the Board is hereby authorized and directed to develop the appropriate documents to effectuate this change in salary.

May I now have a motion to approve the President's budget report and recommendations, as well as the Personnel Committee's proposal relative to President Jennings's salary for the coming year?

Upon motion of Mr. Berry, seconded by Mr. Wexner, the Board of Trustees adopted the foregoing resolution by unanimous roll call vote.

1988-89 CURRENT FUNDS BUDGET THE OHIO STATE UNIVERSITY

I. INTRODUCTION

This year, the budget for the next fiscal year, 1988-89, can be presented to this Board at its June meeting, which is consistent with normal university practices. Since the Ohio General Assembly enacted a biennial budget effective 1 July 1987, we know the rate of State support available. This enables the 1988-89 budget to be brought forward at this June meeting of the Board of Trustees.

While pleased that we know the level of State funding, the rate of increase, at only 3.6 percent for instructional subsidies, makes even more imperative that \$12 million in internal reallocations occur again in 1988-89. This University's long-standing commitment to keeping costs as low as possible is being further challenged as Ohio State seeks to provide the resources needed to continue its initiatives to enhance excellence in teaching, research, and related service. Faculty and staff members already have contributed significantly to the overall quality that exists at Ohio State. Our challenge is to do even more, as we are faced with lower rates of increase from State resources.

Another notable aspect of this budget is that this will be the first budget since 1982 in which Ohio State's recommended tuition increase will be at the level included in State biennial budget legislation. In prior years, this University has met its commitment to accessibility by keeping tuition increases to approximately 50 percent of the levels included in the State budget, and even had no tuition increase in 1986-87. However, Ohio State's financial ability to maintain these lower rates of tuition increases no longer exists, and we must now recommend increases at the

June 2 and 3, 1988 meeting, Board of Trustees

**1988-89 CURRENT FUNDS BUDGET
THE OHIO STATE UNIVERSITY (contd)**

rates proposed by the Ohio General Assembly. It is our hope that future tuition increases can be held to lower levels as the State budget is developed for the next biennium.

Even with 1988-89 being an extremely tight year in the level of budget increases, the faculty and staff have shown and will continue to demonstrate their commitment to assuring the highest quality instruction, research and services within the available resources.

II. SOURCE OF FUNDS

Current Funds Budget Resources proposed for 1988-89 total \$990,160,000 as summarized by funding source in the Budgeted Resources. This amount includes State support totaling \$316,440,000, which represents 32.0 percent of the total income budget. Other major sources of income include student tuitions, 15.5 percent, Federal grants and contracts, 10.2 percent, and Hospital Sales and Services at 20.3 percent.

The core instructional and general budgets of the University -- Unrestricted General Funds -- are estimated to have resources of \$441.86 million, which amounts to 45 percent of total resources. Earnings operations -- such as University Hospitals, Residence Halls, Athletics, and the like -- are budgeted to bring in \$325.12 million, which accounts for 33 percent of total resources. The remaining 22 percent of resources is in the restricted fund group which includes sponsored research projects, most private gifts, and such State-funded activities as the Ohio Cooperative Extension Service and the Ohio Agricultural Research and Development Center.

As reported earlier, it has been a goal of the University to hold tuition increases below the rates of increases recommended by the General Assembly, but this year -- with continued modest increases in State support -- our ability to achieve this goal has been exhausted. We are therefore recommending for Ohio residents the 8 percent increase in student Instructional and General fees that underlies the State funding models for 1988-89.

The review of tuition charges for non-resident students begun last year has been continued. The results of this review have indicated that the amounts for undergraduate, graduate, and law non-resident students continue to fall short of equitable levels. Therefore, selective increases of not more than 16 percent are being recommended for the non-resident surcharge.

The recommended tuition rates for both residents and non-residents of the various colleges and schools are shown in the Student Fee Schedule. While the rate of tuition increase for Ohio residents matches that recommended by the General Assembly, we continue to hope for significant improvements in future biennia that will return Ohio undergraduate students' share of their cost of higher education to the 33 percent level from the current 41 percent.

A major funding source for the University continues to be revenues from the sales and services of the earnings units. Continuing efforts to

June 2 and 3, 1988 meeting, Board of Trustees

**1988-89 CURRENT FUNDS BUDGET
THE OHIO STATE UNIVERSITY (contd)**

monitor and limit increases in all fees and charges of the University, the average increase in all University rates and charges will be approximately 6 percent. The weighted average of the earnings operations in total has been held to just under 5 percent, with Athletics proposing average rate increases of only 2 percent. Since the earnings operations have participated fully in the cost containment and reallocation activities this biennium, they are also eligible to compete for special needs allocations along with general funds units.

The other income components of the 1988-89 Current Funds Budget are in line with expected growth from 1987-88 revenues. Projected total revenues for 1988-89 show an increase of \$50,330,000, which is some 5.4 percent above the estimated revenues for 1987-88. The projected rate of increase is slightly higher at the Regional Campuses and lower at the Ohio Agricultural Research and Development Center, with the net increase for Central Campus being approximately 5.5 percent.

III. USES OF FUNDS

As detailed in the Budgeted Uses schedule, and in the supporting documents, this University's planned expenditures from current funds total \$989,840,000. This level of recommended Current Funds expenditures will support the following budget planning guidelines:

- * Increase faculty, administrative and professional, and classified staff salaries by 1.5 percent and provide 2.5 percent in salary funds for merit increases, with a 1.0 percent pool available on a competitive basis for equity, excellence, and market adjustments.
- * Fund Compensation increases for negotiated wage settlements.
- * Fund increases of 3.0 percent in supplies, equipment, and general expense continuing budgets.
- * Provide funding to maintain the purchasing power of University-funded student financial aid, plus cover new students who may qualify with the increases in tuition.
- * Generate internal reallocations of \$12.0 million across all campuses and fund groups.
- * Provide resources to meet mandatory cost increases, such as utilities and employee benefits. Extraordinary cost increases in these categories include the mandated removal of PCB transformers and an unusually high increase -- of some 40 percent -- in the cost of providing medical benefits.

In addition, the 1988-90 State Capital Improvements bill is expected to provide more than \$10.0 million for acquisition of instructional and computer equipment, to be supplemented by a University allocation of \$2.3 million for research equipment and library acquisitions.

This balanced budget for 1988-89 is being presented for Board of Trustees approval.

June 2 and 3, 1988 meeting, Board of Trustees

THE OHIO STATE UNIVERSITY
1988-89 CURRENT FUNDS BUDGET

Budgeted Resources
(In Millions of Dollars)

	1987-88 Budget July 10, 1987	1987-88 Revised Estimate	1988-89 Proposed Budget
Central Campus			
State Appropriations	\$273.27	\$272.70	\$284.72
Student Fees	133.91	133.32	144.55
Other Resources			
Federal Grants and Contracts	92.00	92.40	94.03
Ohio Grants and Contracts	9.33	10.86	12.05
Local Grants and Contracts	11.88	11.89	12.44
Private Gifts and Grants	46.21	48.81	51.00
Endowment Income	8.30	8.30	9.10
Department and University Services	27.24	26.13	27.43
Auxiliary Sales & Charges	76.72	76.47	82.09
Hospital Sales & Services	192.91	192.39	201.35
Other Sources	14.22	13.95	17.05
Total Other Resources	\$478.81	\$481.20	\$506.54
Total Central Campus	\$885.99	\$887.22	\$935.81
Regional Campuses			
State Appropriations	11.75	11.58	12.18
Student Fees	7.66	8.00	8.82
Other Resources	3.25	3.23	3.24
Total Regional Campuses	\$22.66	\$22.81	\$24.24
OARDC			
State Appropriations	19.15	19.15	19.54
Federal	6.55	6.55	6.65
All Other	4.10	4.10	3.92
Total OARDC	\$29.80	\$29.80	\$30.11
Total University			
State Appropriations	304.17	303.43	316.44
Student Fees	141.57	141.32	153.37
Other Resources	492.71	495.08	520.35
Total University	\$938.45	\$939.83	\$990.16

UBP/June 3, 1988

June 2 and 3, 1988 meeting, Board of Trustees

THE OHIO STATE UNIVERSITY
1988-89 CURRENT FUNDS BUDGET

Budgeted Uses
(In Millions of Dollars)

	1987-88 Budget July 10, 1987	1987-88 Revised Estimate	1988-89 Proposed Budget
Central Campus			
Educational & General	\$599.35	\$601.15	\$630.71
Auxiliary Enterprises			
Residence & Dining Halls	34.49	33.68	36.42
Intercollegiate Athletics	19.25	19.58	20.70
Other Auxiliaries	27.54	27.27	31.02
Total Auxiliaries	\$81.28	\$80.53	\$88.14
University Hospitals	201.67	205.17	216.96
Total Central Campus	\$882.30	\$886.85	\$935.81
Regional Campuses			
Agricultural Technical Institute	5.66	5.62	5.83
Lima Campus	4.67	4.63	5.03
Mansfield Campus	4.28	4.20	4.53
Marion Campus	3.51	3.48	3.88
Newark Campus	3.96	4.30	4.66
Total Regional Campuses	\$22.08	\$22.23	\$23.92
OARDC	29.80	29.80	30.11
Total Uses	\$934.18	\$938.88	\$989.84

UBP/June 3, 1988

Student Fee Schedule (Fees Per Quarter)

College or School	Credit Hours Enrollment	Instruct. Fees	General Fees	Resident Total	Non- Resident Tuition	Non- Resident Total
Undergraduate Colleges						
Agriculture						
Allied Medical Prof.						
Architecture						
The Arts						
Biological Sciences						
Business						
Continuing Education						
Dental Hygiene						
Education						
Engineering	0	46	9	55	50	105
Health, Phys. Educ., & Rec.	1	91	17	108	100	208
Home Economics	2	114	25	139	199	338
Humanities	3	137	33	170	299	469
Journalism	4	183	44	227	399	626
Mathematics & Physical Sci.	5	228	55	283	498	781
Music	6	274	66	340	598	938
Natural Resources	7	320	77	397	698	1,095
Nursing	8	365	88	453	797	1,250
Pharmacy	9	411	99	510	897	1,407
Social & Behavioral Sciences	10	457	110	567	997	1,564
Social Work	11	502	121	623	1,096	1,719
University College	12+	548	132	680	1,196	1,876
Graduate School	0	48	9	57	68	125
	1	95	17	112	136	248
	2	152	26	178	273	451
	3	228	40	268	409	677
	4	304	53	357	545	902
	5	381	66	447	682	1,129
	6	457	79	536	818	1,354
	7	533	92	625	954	1,579
	8	609	106	715	1,090	1,805
	9	685	119	804	1,227	2,031
	10+	761	132	893	1,363	2,256

THE OHIO STATE UNIVERSITY
1988-89 CURRENT FUNDS BUDGET

Student Fee Schedule (Fees Per Quarter)

College or School	Credit Hours Enrollment	Instruct. Fees	General Fees	Resident Total	Non- Resident Tuition	Non- Resident Total
Graduate Professional						
Law	0	84	13	97	136	233
(Fees Per Semester)	1	168	25	193	272	465
	2	269	40	309	434	743
	3	404	59	463	652	1,115
	4	539	79	618	869	1,487
	5	674	99	773	1,086	1,859
	6	808	119	927	1,303	2,230
	7	943	139	1,082	1,520	2,602
	8	1,078	158	1,236	1,738	2,974
	9	1,212	178	1,390	1,955	3,345
	10+	1,347	198	1,545	2,172	3,717
Pharmacy, Doctor of	0	56	9	65	91	156
(Fees Per Quarter)	1	112	17	129	181	310
	2	180	26	206	290	496
	3	269	40	309	434	743
	4	359	53	412	579	991
	5	449	66	515	724	1,239
	6	539	79	618	869	1,487
	7	629	92	721	1,014	1,735
	8	718	106	824	1,158	1,982
	9	808	119	927	1,303	2,230
	10+	898	132	1,030	1,448	2,478

UMP/June 3, 1988

June 2 and 3, 1988 meeting, Board of Trustees

THE OHIO STATE UNIVERSITY
1988-89 CURRENT FUNDS BUDGET

Student Fee Schedule (Fees Per Quarter)

College or School	Credit Hours Enrollment	Instruct. Fees	General Fees	Resident Total	Non- Resident Tuition	Non- Resident Total
Graduate Professional						
Medicine	0	100	9	109	195	304
(Fees Per Quarter)	1	199	17	216	390	606
	2	319	26	345	625	970
	3	479	40	519	937	1,456
	4	638	53	691	1,249	1,940
	5	798	66	864	1,562	2,426
	6	957	79	1,036	1,874	2,910
	7	1,117	92	1,209	2,186	3,395
	8	1,276	106	1,382	2,498	3,880
	9	1,436	119	1,555	2,811	4,366
	10+	1,595	132	1,727	3,123	4,850
Dentistry	0	82	9	91	178	269
Optometry	1	164	17	181	355	536
Veterinary Medicine	2	262	26	288	567	855
(Fees Per Quarter)	3	392	40	432	851	1,283
	4	523	53	576	1,134	1,710
	5	654	66	720	1,418	2,138
	6	785	79	864	1,702	2,566
	7	916	92	1,008	1,985	2,993
	8	1,046	106	1,152	2,269	3,421
	9	1,177	119	1,296	2,552	3,848
	10+	1,308	132	1,440	2,836	4,276

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THE OHIO STATE UNIVERSITY
1988-89 CURRENT FUNDS BUDGET

Student Fee Schedule (Fees Per Quarter)

College or School	Credit Hours Enrollment	Instruct. Fees	General Fees	Resident Total	Non- Resident Tuition	Non- Resident Total
Regional Campuses						
Undergraduate	0	46	7	53	50	103
	1	91	13	104	100	204
	2	114	20	134	199	333
	3	137	27	164	299	463
	4	183	35	218	399	617
	5	228	44	272	498	770
	6	274	53	327	598	925
	7	320	62	382	698	1,080
	8	365	71	436	797	1,233
	9	411	80	491	897	1,388
	10	457	88	545	997	1,542
	11	502	97	599	1,096	1,695
	12+	548	106	654	1,196	1,850
Graduate	0	48	7	55	68	123
	1	95	13	108	136	244
	2	152	21	173	273	446
	3	228	32	260	409	669
	4	304	42	346	545	891
	5	381	53	434	682	1,116
	6	457	64	521	818	1,339
	7	533	74	607	954	1,561
	8	609	85	694	1,090	1,784
	9	685	95	780	1,227	2,007
	10+	761	106	867	1,363	2,230

June 2 and 3, 1988 meeting, Board of Trustees

REPORT - UNIVERSITY'S INVESTMENT PORTFOLIO

Resolution No. 88-144

RESOLVED, That the report on the University's Investment Portfolio, dated May 20, 1988, as submitted to the Fiscal Affairs Committee of the Board of Trustees, be received and filed with the official records of the Board.

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Thereupon the Board adjourned to meet Thursday, July 7, 1988, at The Ohio State University Fawcett Center for Tomorrow, Columbus, Ohio, at 6:30 p.m.

Attest:

Madison H. Scott
Secretary

Leonard J. Immke
Chairman

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